

DLA

FedMall Quick Start Guide

Supplier Catalog Template



Version 0.1.6

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Document History

Revision History

Revision Number	Revision Date	Summary of Changes	Author
0.0.1	3/14/2016	Initial draft	Don Tennant
0.1.2	6/28/2016	Minor revision. Incremented the version number to remain in sync with referenced spreadsheet version. Described how to specify a contract ID for MarketPlace catalogs. Listed reference location for MRC code lookup (new section 2.4).	Don Tennant
0.1.3	1/24/2017	Minor revision. Provided additional clarification about how to manage the data formats when using Microsoft Excel to edit the template; added a new section 2.5 and updated the notes for the two date fields in section 3 "Field Descriptions."	Don Tennant
0.1.4	2/2/2017	Inserted new section 2.7 to clarify the use of delimiters with optional fields. Expanded section 2.8 to include sample records. In section 3, clarified that the "Justifying Comment" fields are conditionally required. Updated URL in section 4.2, and clarified the origin of the note in section 4.3.	Don Tennant
0.1.5	2/14/2017	Marked Quantity Per Unit Pack and Days ARO as mandatory fields.	Don Tennant
0.1.6	5/02/2017	Added information about handling numeric content as text when viewing the catalog in Microsoft Excel to section 2.5.	Don Tennant

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1. Introduction

1.1 Purpose

The purpose of this document is to assist suppliers with the generation of a valid Excel spreadsheet to create or maintain their catalog items in FedMall.

1.2 Audience

The intended audience of this planning document is:

- FedMall Suppliers
 - FedMall Program Managers
 - Communication Leads
-

1.3 Document References

This document is based on the following documents:

Document Name	Version	Owner
FedMall Supplier Catalog Template Spreadsheet	V0.1.6	IBM

2 Instructions

2.1 Summary of Procedure

- Complete the “Catalog Template” sheet with your catalog details. Do not modify the number or the order of the columns.
- Reference the “Field Descriptions” sheet and the “Additional Information” sheet for help on completing the data entry. You may leave optional fields blank.
- If the item already exists in FedMall, it will be overwritten. If it does not already exist in FedMall, it will be added. To delete an item, enter a “Y” in the first column (Archive); otherwise, leave the first column blank (or specify “N” in the first column).
- When complete, upload the file to FedMall via the Supplier Portal.

2.2 Catalog File Details

File Type	The file should be a plain text file with a .csv extension.
Row Header	Use the headings on the “Catalog Template” sheet. The uploaded .csv file must include the headings as its first row.
Field Delimiter	Each field should be separated from adjacent fields with a delimiter, which is the caret (^) character. If you want to use Microsoft Excel to create your data file and then export it to delimited text, instructions are provided below.
Rows	At present, you may insert a maximum of 10,000 rows of data (plus the one header row). This limitation is subject to change following performance testing.
File Size	The size of the file will vary not only with the number of rows of data, but also with the content of each row. The file should not exceed a maximum size of 20 Megabytes to support effective performance. This limitation is subject to change following system performance testing.

2.3 Managing Images

All images are uploaded in an archive (.zip) file separate from the main catalog spreadsheet. Please see the “Image Upload Specification” spreadsheet for complete details about how to structure that image file archive.

2.4 Using MRCs to Specify Additional Characteristics

The final field in the template, “Characteristic Information,” represents a series of code-value pairs, where the code is a Master Requirements Code (MRC) as listed in the Master Requirements Directory (MRD), which in turn is managed by the Defense Logistics Agency (DLA) Logistics Information Services (DLIS).

You may search for individual codes in the Supplier Portal by accessing Product Information Management and adding/editing an item. Alternatively, you will find complete current tables of MRC codes and their meanings at:

- <https://www.dlis.dla.mil/extracts>

2.5 Managing Number and Date Formats in Excel

If you are using Microsoft Excel to edit your data file (.csv), Excel may try to automatically convert the format of your numbers and dates from the required format. Examples include:

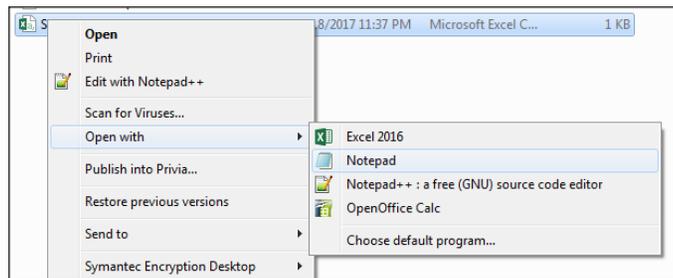
- Long numbers: If you enter a very long value, such as a part number, that only contains the digits 0-9, Excel may try to interpret this as a long number and display it in scientific notation (e.g. "1234567890123" would display as "1.23457E+12").
- Dates: If you enter a value that Excel believes is a date, it will attempt to convert the value to its own format (e.g. "2017-01-24", which is in the correct format, may be changed to "1/24/17" by Excel).
- Values with a leading zero: Excel will recognize that a CAGE code or part number with letters in it is text, e.g. "012AB"; however, if the value is all-numeric and starts with a zero, Excel will treat it as a number and trim the leading zero (e.g. "02468" is converted to "2468").

Essentially, in all of these examples, Excel is attempting to format your data for you, when you want the data to be stored exactly as you enter it.

2.5.1 First step: Understand the format that is actually saved in your file

If you have an existing .csv file, the way to ensure that you understand what is actually in that file is to open it in a plain text editor, such as Notepad, rather than in Excel. To do this, you may choose one of these options:

- Open Notepad (from the Start menu), then select File -> Open, and open the .csv file.
- From Windows Explorer, right-click the file, select "Open With..." and then choose Notepad (or another text editor, such as Notepad++).



2.5.2 Entering new data into a template

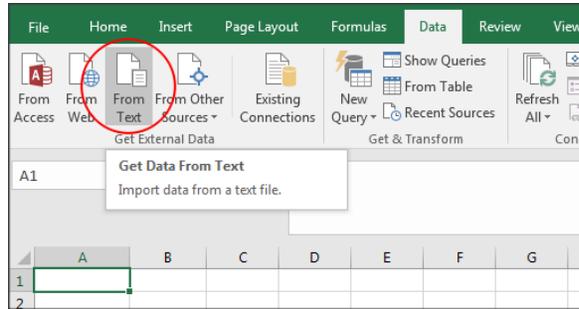
If you are creating a new catalog from scratch, you will want to start with a template. FedMall provides a sample template in addition to this Quick Start Guide. Before entering data into a blank cell, ensure that the format is correctly set to "Text." Change the format of the cell(s) in question to "Text" instead of "General" or "Date." You may do this globally for all cells in the template you are working with. (Hint: to select all cells at once, click any cell, and then tap Ctrl-A on your keyboard.)

	N	O	P	Q	R	S	
	Item Master Primary Spec/Common Information/Days After Receipt of Order	Item Master Primary Spec/Long Description	Item Master Primary Spec/Common Information/Universal Product Code	Item Master Primary Spec/Commercial Information/Environmental Information/Hazardous Material Flag	Item Master Primary Spec/Sale Pricing/Sale Start Date	Item Master Primary Spec/Sale Pricing/Sale End Date	Item Spe
1							
2							
3							
4							

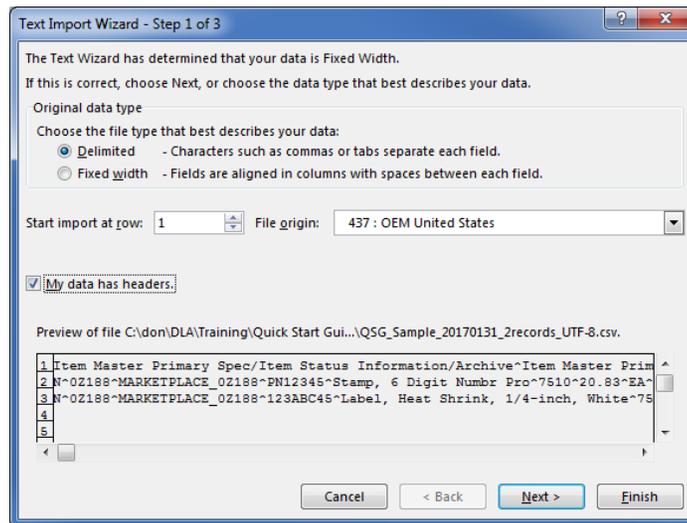
2.5.3 Working with an existing file

If you already have a .csv file and you open it in Excel, you may notice that Excel converts the values to their numeric and date formats automatically. This may happen when you open the .csv file: (1) from Excel's File -> Open menu, or (2) by double-clicking on the .csv file in Windows Explorer to open it in Excel.

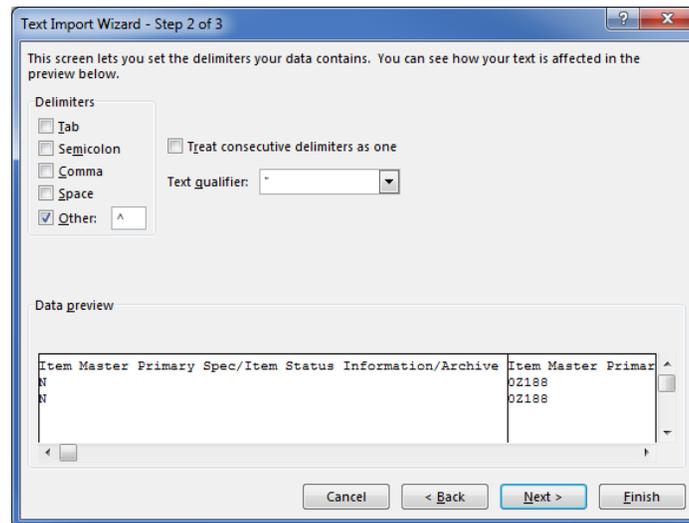
To avoid this issue, you may want to *import* the data when you open the file, rather than opening it directly. To do this, open Excel to a blank workbook. Before you import your data, set all fields in the worksheet to Text (as described in section 2.5.2), and select the "Get Data from Text" option from the Data tab.



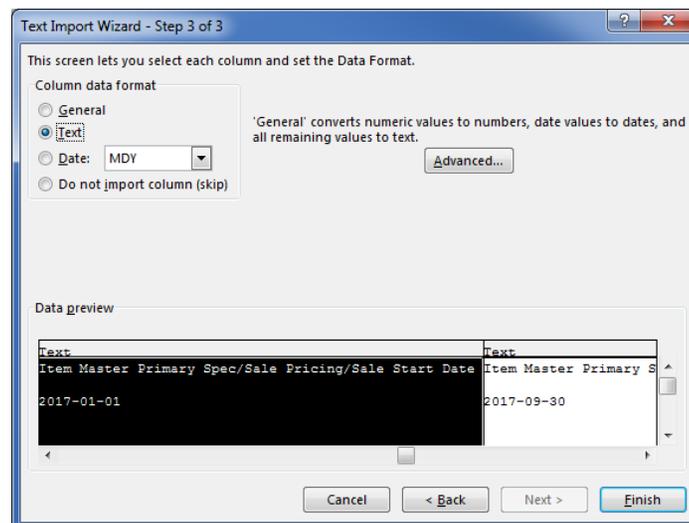
Select your .csv file in the Open dialog box, and then proceed through the steps of the Text Import Wizard. In Step 1, choose "Delimited" and select the check box next to "My data has headers."



In Step 2, specify that the delimiter is a caret (^) by checking the "Other" box and typing a caret in the blank field.



In Step 3, you may leave the default settings (“General”) for most fields, because you already set all fields to “Text” before you started the import wizard. However, Excel will still try to convert the date formats, so be explicit for the Sale Start Date and Sale End Date by selecting each of those columns in turn and choosing “Text” from the list of column data formats.



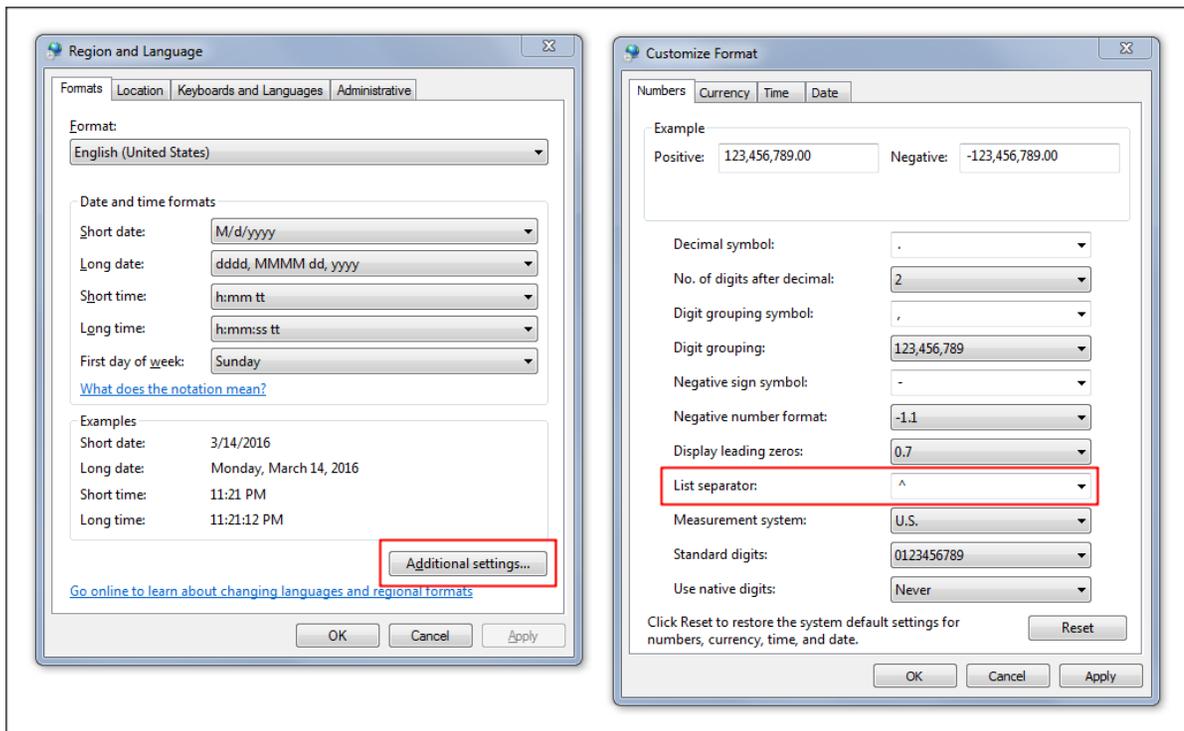
In the final step, you will be able to select where the imported data should go (e.g. cell A1 of your current, blank spreadsheet).

Your imported data will now be presented as all text values.

2.6 Exporting a Text File from Excel

You may create your catalog file in any text editor. You may also find it convenient to use Excel to maintain your data and then export the data from Excel to the delimited text file for import into FedMall.

- First, change your delimiter (“list separator”). Open Control Panel and then the “Region and Language” applet (or, click Start -> Run and type “intl.cpl”). On the Formats tab, click “Additional settings...”. Change the “List separator” value from its default (usually a comma) to the caret (Shift + 6 on most US keyboards). Click OK to save the change.



- In Excel, create your catalog. Ensure that the first row contains the column headers as listed in the “Catalog Template” sheet. Click File -> Save As. In Save As Type, select “CSV (Comma delimited) (*.csv)”. Provide a file name and click Save. Excel will warn you that “some features in your workbook might be lost”; click Yes to keep using this format (Excel is warning you that some features, like formatting, won’t be saved in a text file; this is to be expected).
- Confirm a successful export by opening the file in a plain text editor (such as Notepad). You should see the header row on the first line followed by your data, with a caret (^) character separating each data field (“column”).

2.7 Maintaining Delimiters with Optional Fields

There must be a caret separating each field, even if an optional field is left blank. For example, if leaving OEM CAGE Code blank (between OEM Part Number and OEM Name), the fields might look like this:

```
...^PN12345^^Company Name^...
```

This same principle holds true at the end of the row. For example, if you leave the last five fields blank in a given row, that row would end with five carets (^^^^^), like this:

```
...^This item meets environmental regulations^^^^^
```

2.8 Example

The first row of your .csv text file is a header row, and it should look like this:

Item Master Primary Spec/Item Status Information/Archive^Item Master Primary Spec/Common Information/Commercial and Government Entity Code^Item Master Primary Spec/Common Information/Contract Number^Item Master Primary Spec/Common Information/Part Number^Item Master Primary Spec/Common Information/Part Name^Item Master Primary Spec/Common Information/Federal Supply Class^Item Master Primary Spec/Pricing/Original Unit Price^Item Master Primary Spec/Pricing/Original Unit of Issue^Item Master Primary Spec/Pricing/Quantity Per Unit Pack^Item Master Primary Spec/Common Information/Original Equipment Manufacturer Part Number^Item Master Primary Spec/Common Information/Original Equipment Manufacturer CAGE Code^Item Master Primary Spec/Common Information/Original Equipment Manufacturer Name^Item Master Primary Spec/Short Description^Item Master Primary Spec/Common Information/Days After Receipt of Order^Item Master Primary Spec/Long Description^Item Master Primary Spec/Common Information/Universal Product Code^Item Master Primary Spec/Commercial Information/Environmental Information/Hazardous Material Flag^Item Master Primary Spec/Sale Pricing/Sale Start Date^Item Master Primary Spec/Sale Pricing/Sale End Date^Item Master Primary Spec/Sale Pricing/Sale Price^Item Master Primary Spec/Commercial Information/Shipping Information/Shipment Level of Service/Standard Shipment Price^Item Master Primary Spec/Commercial Information/Shipping Information/Shipping Level of Service/Expedited Shipment Price^Item Master Primary Spec/Commercial Information/Shipping Information/Shipment Level of Service/Next Day Shipment Price^Item Master Primary Spec/Special Properties/Environmentally Preferred/Environmentally Preferred Indicator^Item Master Primary Spec/Special Properties/Environmentally Preferred/Justifying Comment^Item Master Primary Spec/Special Properties/Energy Star/Energy Star Indicator^Item Master Primary Spec/Special Properties/Energy Star/Justifying Comment^Item Master Primary Spec/Special Properties/Made in the USA/Made in the USA Indicator^Item Master Primary Spec/Special Properties/Made in the USA/Justifying Comment^Item Master Primary Spec/Characteristic Information

After including the header row on line 1 of your file, include one item record on each subsequent line (beginning with line 2) of the file. The following text represents two well-formed records that will pass file upload validations (although of course the CAGE code and contract number are fictitious). The first sample record only includes the mandatory fields; the second record has all fields completed.

N^AB123^MARKETPLACE_AB123^PN12345^Stamp, 6 Digit Numbr Pro^7510^20.83^EA^1^USST5546^^U. S. STAMP & SIGN^Professional Numberer, Self-Inking, Type Size 1 1/2, Six Digits, Black^2^Strong and fast to tackle even the biggest numbering jobs. Steel frame construction stands up to heavy-duty use. A self-inking pad saves time; there's no need to stop and re-ink. Includes replaceable stamp pad that delivers up to 10,000 impressions. Stamp Type: Numberer; Ink Types: Self-Inking; Impression Width: 1 5/8 inch; Impression Height: 3/8 inch.^AAAAAAAAAAAAAAAA

N^AB123^MARKETPLACE_AB123^123ABC45^Label, Heat Shrink, 1/4-inch, White^7510^35.57^RO^1^DYM18051^A1B2C^SANFORD LP^Rhino Heat Shrink Tubes Industrial Label Tape Cassette, 1/4 IN X 5 FT, White^1^Durable and smear-proof. Resistant to chemicals, solvents, grease, heat, moisture and other harsh elements. Industrial-strength adhesive for labels that stick and stay stuck. Easy-to-peel split backing for simple application. Label Size - text: 1/4 in x 5 ft.; Label Color(s): White; Machine Compatibility: Label Makers; Printed Text Color(s): Black.^71701180513^N^2017-01-01^2017-09-30^29.82^4.99^9.99^14.99^Y^This item is Green Certified^Y^This item received Energy Star Certification in 2017^Y^Manufactured in California with materials sourced from Maryland^AAAB|white~~~~CGCY|Office supplies~~~~ABGL|0.25 inches~~~~ASHR|Varies

3 Field Descriptions

The following tables provides descriptions of columns in the Supplier Catalog Template.

Field Name	Position	Field Description	Field Group	Type	Length	Req ?	Multi-valued?	Attribute Header (matches the column headers in the "Catalog Template" sheet)
Archive	1	This field indicates whether the item should be marked for deletion (archive). Valid values are "Y" (yes, archive; mark as deleted in the database) or "N" (no, default).	Item Status Information	STRING	1	N	Single value	Item Master Primary Spec/Item Status Information/Archive
Commercial and Government Entity Code	2	The CAGE code of the supplier; a 5-character alphanumeric code issued by the US Government	Common Information	STRING	5	Y	Single value	Item Master Primary Spec/Common Information/Commercial and Government Entity Code
Contract Number	3	The full contract number associated with this item's catalog. For MarketPlace catalogs without a contract, use the identifier MARKETPLACE_<CAGE>. That is, a single underscore character (_) separates the all-capital word "MARKETPLACE" from the supplier's CAGE code (5 alphanumeric characters). Example: MARKETPLACE_012AB.	Common Information	STRING	20	Y	Single value	Item Master Primary Spec/Common Information/Contract Number
Part Number	4	Your part number; the part number as captured by the vendor/supplier.	Common Information	STRING	80	Y	Single value	Item Master Primary Spec/Common Information/Part Number
Part Name	5	Product name; the name of the item	Common Information	STRING	80	Y	Single value	Item Master Primary Spec/Common Information/Part Name
Product Service Code	6	The PSC (product service code) includes all of the Federal Service Code (FSC) numbers and includes additional codes; PSCs are 4 alphanumeric characters long.	Common Information	STRING	4	Y	Single value	Item Master Primary Spec/Common Information/Federal Supply Class
Price	7	This is the customer cost; note: for FOB Destination, this price must include the shipment costs. Enter the price as a number with up to two decimal digits; do not include the dollar sign.	Pricing	NUMBER	20	Y	Single value	Item Master Primary Spec/Pricing/Original Unit Price
Unit of Issue	8	This is a word such as "each," "box," or "carton," to describe the unit associated with the quantity. Use a valid code from the list provided in the next sheet.	Pricing	STRING	2	Y	Single value	Item Master Primary Spec/Pricing/Original Unit of Issue

Quantity per Unit Pack	9	Also known as the quantity per unit of issue; this is the number of items in each box, carton, etc.	Pricing	NUMBER	20	Y	Single value	Item Master Primary Spec/Pricing/Quantity Per Unit Pack
OEM Part Number	10	The original equipment manufacturer (OEM) part number; do not modify with a prefix or suffix	Common Information	STRING	80	Y	Single value	Item Master Primary Spec/Common Information/Original Equipment Manufacturer Part Number
OEM CAGE Code	11	The original equipment manufacturer (OEM)'s 5-character Commercial and Government Entity (CAGE) code	Common Information	STRING	5	N	Single value	Item Master Primary Spec/Common Information/Original Equipment Manufacturer CAGE Code
OEM Name	12	The original equipment manufacturer (OEM) name; the name of the company that manufactured the item	Common Information	STRING	80	Y	Single value	Item Master Primary Spec/Common Information/Original Equipment Manufacturer Name
Description	13	Detailed description of the item (spell out key words)	(General)	STRING	25 4	Y	Single value	Item Master Primary Spec/Short Description
Days ARO	14	Time frame from receipt of order (ARO = After Receipt of Order) to shipping; this is not the same as the time frame for the delivery of an order.	Common Information	NUMBER	20	Y	Single value	Item Master Primary Spec/Common Information/Days After Receipt of Order
Expanded Description	15	Long description of the item.	(General)	STRING	30 00	Y	Single value	Item Master Primary Spec/Long Description
UPC	16	The universal product code ("bar code") number. Use only digits 0 through 9; do not include the hyphen (-) character.	Common Information	STRING	12	N	Single value	Item Master Primary Spec/Common Information/Universal Product Code
Hazardous Material Flag	17	Indicates hazardous material (HAZMAT) classification. Valid values are "Y" (yes, HAZMAT) or "N" (no).	Commercial Information	STRING	1	N	Single value	Item Master Primary Spec/Commercial Information/Environmental Information/Hazardous Material Flag
Sale Start Date	18	The date (date only, no time) at which point the sale price will be effective. Use format YYYY-MM-DD, e.g. 2015-12-17. Note: If using Microsoft Excel to edit the file, change the format to "Text" (instead of "Date" or "General") to prevent Excel from converting the numbers into its own data format.	Sale Pricing	DATE	10	N	Single value	Item Master Primary Spec/Sale Pricing/Sale Start Date
Sale End Date	19	The date (date only, no time) at which point the sale price will no longer be effective. Use format YYYY-MM-DD, e.g. 2015-12-17. Note: If using Microsoft Excel to edit the file, change the format to "Text" (instead of "Date" or "General") to prevent Excel from converting the	Sale Pricing	DATE	10	N	Single value	Item Master Primary Spec/Sale Pricing/Sale End Date

		numbers into its own data format.						
Sale Price	20	Enter the price as a number with up to two decimal digits; do not include the dollar sign.	Sale Pricing	NUMBER	20	N	Single value	Item Master Primary Spec/Sale Pricing/Sale Price
Standard Shipment Price	21	Enter the price as a number with up to two digits after the decimal; do not include the dollar sign.	Commercial Information	NUMBER	10	N	Single value	Item Master Primary Spec/Commercial Information/Shipping Information/Shipment Level of Service/Standard Shipment Price
Expedited Shipment Price	22	Enter the price as a number with up to two digits after the decimal; do not include the dollar sign.	Commercial Information	NUMBER	10	N	Single value	Item Master Primary Spec/Commercial Information/Shipping Information/Shipment Level of Service/Expedited Shipment Price
Next Day Shipment Price	23	Enter the price as a number with up to two digits after the decimal; do not include the dollar sign.	Commercial Information	NUMBER	10	N	Single value	Item Master Primary Spec/Commercial Information/Shipping Information/Shipment Level of Service/Next Day Shipment Price
Environmentally Preferred Indicator	24	Indicates whether this item is environmentally preferred. Valid values are "Y" (yes) or "N" (no).	Special Properties	STRING	1	N	Single value	Item Master Primary Spec/Special Properties/Environmentally Preferred/Environmentally Preferred Indicator
Environmentally Preferred Justifying Comment	25	Free text comments to justify the indicator. Required only if the associated indicator is "Y".	Special Properties	STRING	3000	Conditional	Single value	Item Master Primary Spec/Special Properties/Environmentally Preferred/Justifying Comment
Energy Star Indicator	26	Indicates whether this item is Energy Star certified. Valid values are "Y" (yes) or "N" (no).	Special Properties	STRING	1	N	Single value	Item Master Primary Spec/Special Properties/Energy Star/Energy Star Indicator
Energy Star Justifying Comment	27	Free text comments to justify the indicator. Required only if the associated indicator is "Y".	Special Properties	STRING	3000	Conditional	Single value	Item Master Primary Spec/Special Properties/Energy Star/Justifying Comment
Made in the USA Indicator	28	Indicates whether this item is made in the USA. Valid values are "Y" (yes) or "N" (no).	Special Properties	STRING	1	N	Single value	Item Master Primary Spec/Special Properties/Made in the USA/Made in the USA Indicator
Made in the USA Justifying Comment	29	Free text comments to justify the indicator. Required only if the associated indicator is "Y".	Special Properties	STRING	3000	Conditional	Single value	Item Master Primary Spec/Special Properties/Made in the USA/Justifying Comment
Characteristic Information	30	List of Master Requirement Codes (MRC). Format string as one or more code-value pairs. Separate the code from its value with the pipe () character. Separate each code-value pair with five (5) tilde characters (~~~~~). Format is: code1 value1~~~~~code2 v	Characteristic Information	STRING	13595	N	Multiple values allowed per field	Item Master Primary Spec/Characteristic Information

alue2~~~~code3|value3~~
~~~~code4|value4. Do not  
use the delimiters (i.e. the  
pipe character or five  
consecutive tildes) in either  
the codes or the values  
provided. A maximum of  
100 code-value pairs may  
be included per item.

## 4 Additional Information: X12 Codes

### 4.1 Overview

FedMall uses X12 codes on all outbound requisitions and purchase orders. For those vendors who are using the DoD codes, please use the conversions available in the table below. All codes in vendor catalog uploads should be X12 codes as listed below.

### 4.2 Notes

Number of codes: 485

Reference URL: <http://www.dlmsa.dla.mil/eApplications/LogDataAdmin/dlmsansiconverguides.asp>

### 4.3 Codes

Notes: The following note is provided verbatim from the source document on the DLA.mil site:  
*ALL X12 CODE VALUES WITHOUT TRAILING ASTERISKS (\*) HAVE BEEN APPROVED BY THE ASC X12 COMMITTEE FOR USE IN ALL VERSION RELEASES OF ANSI X12. A SINGLE ASTERISK (\*) INDICATES THAT X12 CODE VALUES ARE AUTHORIZED FOR USE IN VERSION RELEASES 005020 AND AN ALL SUBSEQUENT VERSIONS. THE X12 CODE VALUES FOLLOWED BY A DOUBLE ASTERISK (\*\*) HAVE BEEN APPROVED FOR VERSION RELEASE 005030 AND ALL SUBSEQUENT VERSIONS.*

| DOD CODE<br><i>(for reference only)</i> | NAME/DEFINITION            | X12 CODE<br><i>(to be used in FedMall)</i> |
|-----------------------------------------|----------------------------|--------------------------------------------|
| SC                                      | SECOND                     | 3                                          |
| 5                                       | LIFT                       | 5                                          |
| 7                                       | STRAND                     | 7                                          |
| 9                                       | TIRE                       | 9                                          |
| GP                                      | GROUP                      | 10                                         |
| OT                                      | OUTFIT                     | 11                                         |
| PZ                                      | PACKET                     | 12                                         |
| RA                                      | RATION                     | 13                                         |
| SO                                      | SHOT                       | 14                                         |
| SX                                      | STICK                      | 15                                         |
| 17                                      | 100 POUND DRUM             | 17                                         |
| 18                                      | 55 GALLON DRUM             | 18                                         |
| 19                                      | TANK TRUCK                 | 19                                         |
| 1N                                      | COUNT                      | 1N                                         |
| 1O                                      | SEASON                     | 1O                                         |
| 1P                                      | TANK CAR                   | 1P                                         |
| FR                                      | FRAME                      | 1Q                                         |
| 1R                                      | TRANSACTION                | 1R                                         |
| 1X                                      | QUARTER MILE               | 1X                                         |
| 20                                      | 20 FOOT CONTAINER          | 20                                         |
| 21                                      | 40 FOOT CONTAINER          | 21                                         |
| 2D                                      | SHIP SET                   | 2D                                         |
| MB                                      | BRITISH THERMAL UNITS/HOUR | 2I                                         |

|           |                                      |                                                                       |
|-----------|--------------------------------------|-----------------------------------------------------------------------|
| <b>DB</b> | DECIBEL                              | 2N                                                                    |
| <b>KC</b> | KILOCURIE                            | 2R                                                                    |
| <b>2U</b> | MEGAGRAM                             | 2U                                                                    |
| <b>2W</b> | BIN                                  | 2W                                                                    |
| <b>43</b> | SUPER BULK BAG (SAME SIZE AS PALLET) | 43                                                                    |
| <b>44</b> | 500 KILOGRAM BULK BAG                | 44                                                                    |
| <b>45</b> | 300 KILOGRAM BULK BAG                | 45                                                                    |
| <b>46</b> | 25 KILOGRAM BULK BAG                 | 46                                                                    |
| <b>47</b> | 50 POUND BAG                         | 47                                                                    |
| <b>48</b> | BULK CAR LOAD                        | 48                                                                    |
| <b>4A</b> | BOBBIN                               | 4A                                                                    |
| <b>4B</b> | CAP                                  | 4B                                                                    |
| <b>4E</b> | 20-PACK                              | 4E                                                                    |
| <b>4F</b> | 100-PACK                             | 4F                                                                    |
| <b>4G</b> | MICROLITER                           | 4G                                                                    |
| <b>51</b> | ACTUAL TONNES                        | 51                                                                    |
| <b>57</b> | MESH                                 | 57                                                                    |
| <b>58</b> | NET KILOGRAMS                        | 58                                                                    |
| <b>5B</b> | BATCH                                | 5B                                                                    |
| <b>5D</b> | PROOF GALLONS                        | 5D                                                                    |
| <b>5G</b> | PUMP                                 | 5G                                                                    |
| <b>5H</b> | STAGE                                | 5H                                                                    |
| <b>5I</b> | STANDARD CUBE FOOT                   | 5I                                                                    |
| <b>VT</b> | VOLT                                 | 70                                                                    |
| <b>7A</b> | LANDINGS                             | 7A                                                                    |
| <b>7C</b> | FLIGHT HOURS                         | 7C                                                                    |
| <b>8C</b> | CORD                                 | 8C                                                                    |
| <b>8D</b> | DUTY                                 | 8D                                                                    |
| <b>8P</b> | PROJECT                              | 8P                                                                    |
| <b>8R</b> | PROGRAM                              | 8R                                                                    |
| <b>8S</b> | SESSION                              | 8S                                                                    |
| <b>K2</b> | SQUARE KILOMETER                     | 8U                                                                    |
| <b>91</b> | STOKE                                | 91                                                                    |
| <b>94</b> | CURL UNIT                            | 94                                                                    |
| <b>95</b> | 20,000 GALLON TANKCAR                | 95                                                                    |
| <b>96</b> | 10,000 GALLON TANKCAR                | 96                                                                    |
| <b>97</b> | 10 KILOGRAM DRUM                     | 97                                                                    |
| <b>98</b> | 15 KILOGRAM DRUM                     | 98                                                                    |
| <b>WT</b> | WATT                                 | 99                                                                    |
| <b>AP</b> | APOTHECARY POUND                     | 9A (X12 VERSION RELEASE 005020<br>MIGRATION CODE. REFER TO ADC 1008.) |
| <b>BQ</b> | BRIQUET                              | 9B (X12 VERSION RELEASE 005020<br>MIGRATION CODE. REFER TO ADC 1008.) |
| <b>FD</b> | FOLD                                 | 9F (X12 VERSION RELEASE 005020<br>MIGRATION CODE. REFER TO ADC 1008.) |

|           |                                      |                                                                       |
|-----------|--------------------------------------|-----------------------------------------------------------------------|
| <b>AO</b> | APOTHECARY OUNCE                     | 9O (X12 VERSION RELEASE 005020<br>MIGRATION CODE. REFER TO ADC 1008.) |
| <b>PI</b> | PILLOW                               | 9P (X12 VERSION RELEASE 005030<br>MIGRATION CODE. REFER TO ADC 1008.) |
| <b>ST</b> | SEAT                                 | 9S (X12 VERSION RELEASE 005020<br>MIGRATION CODE. REFER TO ADC 1008.) |
| <b>9Y</b> | FAMILY UNIT                          | 9Y                                                                    |
| <b>US</b> | USP UNIT                             | 9Z (X12 VERSION RELEASE 005020<br>MIGRATION CODE. REFER TO ADC 1008.) |
| <b>BA</b> | BALL                                 | AA                                                                    |
| <b>AB</b> | BULK PACK                            | AB                                                                    |
| <b>AC</b> | ACRE                                 | AC                                                                    |
| <b>YT</b> | BYTE                                 | AD                                                                    |
| <b>CG</b> | CENTIGRAM                            | AF                                                                    |
| <b>AJ</b> | COP (CYLINDRICAL OR CONICAL MASS)    | AJ                                                                    |
| <b>FA</b> | FATHOM                               | AK                                                                    |
| <b>AL</b> | ACCESS LINES                         | AL                                                                    |
| <b>AM</b> | AMPOULE                              | AM                                                                    |
| <b>AR</b> | SUPPOSITORY                          | AR                                                                    |
| <b>AT</b> | ASSORTMENT                           | AS                                                                    |
| <b>AV</b> | CAPSULE                              | AV                                                                    |
| <b>AW</b> | POWDER-FILLED VIAL                   | AW                                                                    |
| <b>AX</b> | TWENTY                               | AX                                                                    |
| <b>AY</b> | ASSEMBLY                             | AY                                                                    |
| <b>B0</b> | BRITISH THERMAL UNITS PER CUBIC FOOT | B0                                                                    |
| <b>BY</b> | BUNK                                 | B2                                                                    |
| <b>B3</b> | BATTING POUND                        | B3                                                                    |
| <b>B4</b> | BARREL IMPERIAL                      | B4                                                                    |
| <b>B5</b> | BILLET                               | B5                                                                    |
| <b>B6</b> | BUN                                  | B6                                                                    |
| <b>B7</b> | CYCLE                                | B7                                                                    |
| <b>B8</b> | BOARD                                | B8                                                                    |
| <b>B9</b> | BATT                                 | B9                                                                    |
| <b>BE</b> | BALE                                 | BA                                                                    |
| <b>BB</b> | BASS BOX                             | BB                                                                    |
| <b>BC</b> | BUCKET                               | BC                                                                    |
| <b>BD</b> | BUNDLE                               | BD                                                                    |
| <b>BM</b> | BEAM                                 | BE                                                                    |
| <b>BF</b> | BOARD FOOT                           | BF                                                                    |
| <b>BG</b> | BAG                                  | BG                                                                    |
| <b>BH</b> | BRUSH                                | BH                                                                    |
| <b>BR</b> | BAR                                  | BI                                                                    |
| <b>BJ</b> | BAND                                 | BJ                                                                    |
| <b>BK</b> | BOOK                                 | BK                                                                    |
| <b>BZ</b> | BLOCK                                | BL                                                                    |
| <b>BO</b> | BOLT                                 | BM                                                                    |

|           |                                         |    |
|-----------|-----------------------------------------|----|
| <b>BN</b> | BULK                                    | BN |
| <b>BT</b> | BOTTLE                                  | BO |
| <b>BP</b> | 100 BOARD FEET                          | BP |
| <b>BL</b> | BARREL                                  | BR |
| <b>BS</b> | BASKET                                  | BS |
| <b>BI</b> | BELT                                    | BT |
| <b>BU</b> | BUSHEL (32 DRY QUARTS)                  | BU |
| <b>BV</b> | BUSHEL DRY IMPERIAL                     | BV |
| <b>BW</b> | BASE WEIGHT                             | BW |
| <b>BX</b> | BOX                                     | BX |
| <b>ZF</b> | MILLION BTUS/DEKATHERM                  | BZ |
| <b>C0</b> | CALLS                                   | C0 |
| <b>C1</b> | COMPOSITE PRODUCT POUNDS (TOTAL WEIGHT) | C1 |
| <b>C7</b> | CARSET                                  | C2 |
| <b>C4</b> | CARLOAD                                 | C4 |
| <b>C5</b> | COST                                    | C5 |
| <b>C6</b> | CELL                                    | C6 |
| <b>C8</b> | CUBIC DECIMETER                         | C8 |
| <b>C9</b> | COIL GROUP                              | C9 |
| <b>CS</b> | CASE                                    | CA |
| <b>CB</b> | CARBOY                                  | CB |
| <b>CC</b> | CUBIC CENTIMETER                        | CC |
| <b>KR</b> | KARAT (CARAT)                           | CD |
| <b>CF</b> | CUBIC FOOT                              | CF |
| <b>CQ</b> | CARD                                    | CG |
| <b>CO</b> | CONTAINER                               | CH |
| <b>CI</b> | CUBIC INCH                              | CI |
| <b>CE</b> | CONE                                    | CJ |
| <b>CR</b> | CONNECTOR                               | CK |
| <b>CY</b> | CYLINDER                                | CL |
| <b>CM</b> | CENTIMETER                              | CM |
| <b>CN</b> | CAN                                     | CN |
| <b>CP</b> | CRATE                                   | CP |
| <b>CA</b> | CARTRIDGE                               | CQ |
| <b>CZ</b> | CUBIC METER                             | CR |
| <b>CX</b> | CASSETTE                                | CS |
| <b>CT</b> | CARTON                                  | CT |
| <b>CU</b> | CUP                                     | CU |
| <b>CV</b> | COVER                                   | CV |
| <b>HP</b> | HUNDRED POUNDS                          | CW |
| <b>CL</b> | COIL                                    | CX |
| <b>CD</b> | CUBIC YARD                              | CY |
| <b>C3</b> | COMBO                                   | CZ |
| <b>DA</b> | DAY                                     | DA |
| <b>DM</b> | DRAM                                    | DF |

|    |                           |    |
|----|---------------------------|----|
| DG | DECIGRAM                  | DG |
| MI | MILE                      | DH |
| DI | DISPENSER                 | DI |
| DC | DECAGRAM                  | DJ |
| KM | KILOMETER                 | DK |
| DL | DECILITER                 | DL |
| DE | DECIMETER                 | DM |
| DO | DOLLARS U.S.              | DO |
| DP | DOZEN PAIR                | DP |
| DQ | DATA RECORD               | DQ |
| DR | DRUM                      | DR |
| DS | DISPLAY                   | DS |
| DT | DRY TON                   | DT |
| DU | DYNE                      | DU |
| DK | DEGREES, KELVIN           | DV |
| DX | CALENDAR DAYS (NUMBER OF) | DW |
| DY | DIRECTORY BOOKS           | DY |
| DZ | DOZEN                     | DZ |
| E1 | HECTOMETER                | E1 |
| EA | EACH                      | EA |
| EB | ELECTRONIC MAIL BOXES     | EB |
| EE | EMPLOYEES                 | EE |
| EH | KNOTS                     | EH |
| EJ | LOCATIONS                 | EJ |
| EP | ELEVEN PACK               | EP |
| EQ | EQUIVALENT GALLONS        | EQ |
| EV | ENVELOPES                 | EV |
| IU | INTERNATIONAL UNIT        | F2 |
| F4 | MINIM                     | F4 |
| F6 | PRICE PER SHARE           | F6 |
| DF | FAHRENHEIT                | FA |
| FB | FIELDS                    | FB |
| FC | 1000 CUBIC FEET           | FC |
| FE | TRACK FOOT                | FE |
| FF | HUNDRED CUBIC METERS      | FF |
| FG | TRANSDERMAL PATCH         | FG |
| FJ | SIZING FACTOR             | FJ |
| FK | FIBER                     | FK |
| FL | FLAKE TON                 | FL |
| FM | MILLION CUBIC FEET        | FM |
| FO | FLUID OUNCE               | FO |
| FT | FOOT                      | FT |
| FU | FURLONG                   | FU |
| GB | GALLONS PER MINUTE        | G2 |
| GI | GILL (IMPERIAL)           | G5 |

|    |                                         |                                                                       |
|----|-----------------------------------------|-----------------------------------------------------------------------|
| GL | GALLON                                  | GA                                                                    |
| GG | GREAT GROSS                             | GG                                                                    |
| IG | IMPERIAL GALLON                         | GI                                                                    |
| GM | GRAM                                    | GR                                                                    |
| GR | GROSS                                   | GS                                                                    |
| GN | GRAIN                                   | GX                                                                    |
| H2 | HALF LITER                              | H2                                                                    |
| H4 | HECTOLITER                              | H4                                                                    |
| HK | HANK                                    | HA                                                                    |
| HX | HUNDRED BOXES                           | HB                                                                    |
| HC | HUNDRED COUNT                           | HC                                                                    |
| HZ | HALF DOZEN                              | HD                                                                    |
| HF | HUNDRED FEET                            | HF                                                                    |
| HG | HECTOGRAM                               | HG                                                                    |
| HA | HUNDRED CUBIC FEET                      | HH                                                                    |
| HI | HUNDRED SHEETS                          | HI                                                                    |
| KH | HUNDREDS OF KILOGRAMS                   | HK                                                                    |
| HL | HUNDRED FEET (LINEAR)                   | HL                                                                    |
| HO | HUNDRED TROY OUNCES                     | HO                                                                    |
| HQ | HECTARE                                 | HQ                                                                    |
| HR | HOUR                                    | HR                                                                    |
| HS | HUNDRED SQUARE FEET                     | HS                                                                    |
| HT | HALF HOUR                               | HT                                                                    |
| HD | HUNDRED                                 | HU                                                                    |
| HW | HUNDRED WEIGHT – SHORT (HUNDRED WEIGHT) | HV                                                                    |
| CW | HUNDRED WEIGHT (LONG)                   | HW                                                                    |
| HB | HOSPITAL BEDS                           | HX (X12 VERSION RELEASE 005020<br>MIGRATION CODE. REFER TO ADC 1008.) |
| HY | HUNDRED YARDS                           | HY                                                                    |
| I1 | PERSONS, CAPACITY                       |                                                                       |
| PX | PELLET                                  | I2 (X12 VERSION RELEASE 005030<br>MIGRATION CODE. REFER TO ADC 1008.) |
| PN | PERSON                                  | IE                                                                    |
| IH | INHALER                                 | IH                                                                    |
| IM | IMPRESSION                              | IM                                                                    |
| IN | INCH                                    | IN                                                                    |
| IP | INSURANCE POLICY                        | IP                                                                    |
| IS | STOP                                    | IS                                                                    |
| JB | JOB                                     | JA                                                                    |
| JU | JUMBO                                   | JB                                                                    |
| JO | JOINT                                   | JO                                                                    |
| JR | JAR                                     | JR                                                                    |
| JG | JUG                                     | JU                                                                    |
| K6 | KILOLITER                               | K6                                                                    |
| K7 | KILOWATT                                | K7                                                                    |

|           |                              |                                                                       |
|-----------|------------------------------|-----------------------------------------------------------------------|
| <b>KV</b> | KILOVOLT                     | K8 (X12 VERSION RELEASE 006050<br>MIGRATION CODE. REFER TO ADC 1008.) |
| <b>CK</b> | CAKE                         | KA                                                                    |
| <b>KE</b> | KEG                          | KE                                                                    |
| <b>KF</b> | KILOPACKET                   | KF                                                                    |
| <b>KG</b> | KILOGRAM                     | KG                                                                    |
| <b>KZ</b> | KILOWATT-HOUR                | KH                                                                    |
| <b>KK</b> | 100 KILOGRAMS                | KK                                                                    |
| <b>KT</b> | KIT                          | KT                                                                    |
| <b>KU</b> | TASK                         | KU                                                                    |
| <b>DK</b> | KELVIN                       | KV                                                                    |
| <b>L5</b> | LITERS AT 15 DEGREES CELSIUS | L5 (LOCAL CODE SUBMITTED FOR INCLUSION<br>IN X12. REFER TO ADC 1108.) |
| <b>LB</b> | POUND (AVOIRDUPOIS)          | LB                                                                    |
| <b>LE</b> | LITE                         | LE                                                                    |
| <b>LF</b> | LINEAR FOOT                  | LF                                                                    |
| <b>LO</b> | LONG TON                     | LG                                                                    |
| <b>LN</b> | LINEAR INCH                  | LI                                                                    |
| <b>LJ</b> | LARGE SPRAY                  | LJ                                                                    |
| <b>LK</b> | LINK                         | LK                                                                    |
| <b>LM</b> | LINEAR METER                 | LM                                                                    |
| <b>LG</b> | LENGTH                       | LN                                                                    |
| <b>LT</b> | LOT                          | LO                                                                    |
| <b>LR</b> | LAYER                        | LR                                                                    |
| <b>LS</b> | LUMP SUM                     | LS                                                                    |
| <b>LI</b> | LITER                        | LT                                                                    |
| <b>LY</b> | LINEAR YARD                  | LY                                                                    |
| <b>M0</b> | MAGNETIC TAPE                | M0                                                                    |
| <b>M3</b> | MAT                          | M3                                                                    |
| <b>M5</b> | MICROGRAM                    | MC                                                                    |
| <b>MD</b> | AIR DRY METRIC TON           | MD                                                                    |
| <b>MG</b> | MILLIGRAM                    | ME                                                                    |
| <b>MJ</b> | METRIC GROSS TON             | MG                                                                    |
| <b>MH</b> | METRIC                       | MI                                                                    |
| <b>MT</b> | MINUTE                       | MJ                                                                    |
| <b>ML</b> | MILLILITER                   | ML                                                                    |
| <b>MM</b> | MILLIMETER                   | MM                                                                    |
| <b>MA</b> | METRIC NET TON               | MN                                                                    |
| <b>MO</b> | MONTH                        | MO                                                                    |
| <b>M6</b> | METRIC TON                   | MP                                                                    |
| <b>MQ</b> | 1000 METERS                  | MQ                                                                    |
| <b>MR</b> | METER                        | MR                                                                    |
| <b>MS</b> | SQUARE MILLIMETER            | MS                                                                    |
| <b>MK</b> | METRIC LONG TON              | MT                                                                    |
| <b>MZ</b> | MIXED                        | MX                                                                    |

|           |                          |                                                                       |
|-----------|--------------------------|-----------------------------------------------------------------------|
| <b>N2</b> | NUMBER OF LINES          | N2                                                                    |
| <b>N7</b> | PART                     | N7                                                                    |
| <b>N9</b> | CARTRIDGE NEEDLE         | N9                                                                    |
| <b>NB</b> | BARGE                    | NB                                                                    |
| <b>NC</b> | CAR                      | NC                                                                    |
| <b>ND</b> | NET BARRELS              | ND                                                                    |
| <b>NE</b> | NET LITERS               | NE                                                                    |
| <b>NF</b> | MESSAGES                 | NF                                                                    |
| <b>NG</b> | NET GALLONS              | NG                                                                    |
| <b>NI</b> | NET IMPERIAL GALLONS     | NI                                                                    |
| <b>NJ</b> | NUMBER OF SCREENS        | NJ                                                                    |
| <b>NK</b> | NIGHTS                   | NK                                                                    |
| <b>NL</b> | LOAD                     | NL                                                                    |
| <b>NM</b> | NAUTICAL MILE            | NM                                                                    |
| <b>NN</b> | TRAIN                    | NN                                                                    |
| <b>NS</b> | SHORT TON                | NS                                                                    |
| <b>NT</b> | TRAILER                  | NT                                                                    |
| <b>NV</b> | VEHICLE                  | NV                                                                    |
| <b>NX</b> | PARTS PER THOUSAND       | NX                                                                    |
| <b>GT</b> | THOUSAND GALLONS PER DAY | NZ (X12 VERSION RELEASE 005030<br>MIGRATION CODE. REFER TO ADC 1008.) |
| <b>OA</b> | PANEL                    | OA                                                                    |
| <b>OL</b> | OUTLET                   | OB (X12 VERSION RELEASE 005030<br>MIGRATION CODE. REFER TO ADC 1008.) |
| <b>OC</b> | BILLBOARD                | OC                                                                    |
| <b>GX</b> | APOTHECARY GRAIN         | OG (X12 VERSION RELEASE 005030<br>MIGRATION CODE. REFER TO ADC 1008.) |
| <b>OP</b> | TWO PACK                 | OP                                                                    |
| <b>OU</b> | OPERATING UNIT           | OU (X12 VERSION RELEASE 005020<br>MIGRATION CODE. REFER TO ADC 1008.) |
| <b>OZ</b> | OUNCE - AV               | OZ                                                                    |
| <b>P0</b> | PAGE - ELECTRONIC        | P0                                                                    |
| <b>P1</b> | PERCENT                  | P1                                                                    |
| <b>P2</b> | POUNDS PER FOOT          | P2                                                                    |
| <b>P3</b> | THREE PACK               | P3                                                                    |
| <b>P4</b> | FOUR PACK                | P4                                                                    |
| <b>P5</b> | FIVE PACK                | P5                                                                    |
| <b>P6</b> | SIX PACK                 | P6                                                                    |
| <b>P7</b> | SEVEN PACK               | P7                                                                    |
| <b>P8</b> | EIGHT PACK               | P8                                                                    |
| <b>P9</b> | NINE PACK                | P9                                                                    |
| <b>PL</b> | PAIL                     | PA                                                                    |
| <b>PB</b> | PAIR INCHES              | PB                                                                    |
| <b>PC</b> | PIECE                    | PC                                                                    |
| <b>PD</b> | PAD                      | PD                                                                    |
| <b>PE</b> | POUNDS EQUIVALENT        | PE                                                                    |

|    |                                 |                                                                       |
|----|---------------------------------|-----------------------------------------------------------------------|
| PF | PALLET (LIFT)                   | PF                                                                    |
| PO | POUNDS GROSS                    | PG                                                                    |
| PH | PACK (PAK)                      | PH                                                                    |
| PY | PITCH                           | PI                                                                    |
| PG | PACKAGE                         | PK                                                                    |
| PJ | PALLET/UNIT LOAD                | PL                                                                    |
| PS | POUNDS NET                      | PN                                                                    |
| PM | PLATE                           | PP                                                                    |
| PR | PAIR                            | PR                                                                    |
| PT | PINT                            | PT                                                                    |
| PU | MASS POUNDS                     | PU                                                                    |
| PV | HALF PINT                       | PV                                                                    |
| PP | PINT IMPERIAL                   | PX                                                                    |
| PK | PECK DRY US                     | PY                                                                    |
| PQ | PECK DRY IMPERIAL               | PZ                                                                    |
| ME | MEAL                            | Q3                                                                    |
| FY | FIFTY                           | Q4                                                                    |
| TF | TWENTY-FIVE                     | Q5                                                                    |
| TS | THIRTY-SIX                      | Q6                                                                    |
| TD | TWENTY-FOUR                     | Q7                                                                    |
| FV | FIVE                            | Q9 (X12 VERSION RELEASE 005030<br>MIGRATION CODE. REFER TO ADC 1008.) |
| QC | CHANNEL                         | QC                                                                    |
| QU | QUARTER DOZEN                   | QD                                                                    |
| QE | PHOTOGRAPHS                     | QE                                                                    |
| QF | QUARTER                         | QF **                                                                 |
| QK | QUARTER KILOGRAM                | QK                                                                    |
| QR | QUIRE                           | QR                                                                    |
| QS | QUART DRY U.S.                  | QS                                                                    |
| QT | QUART                           | QT                                                                    |
| QI | QUART IMPERIAL                  | QU                                                                    |
| R4 | CALORIE                         | R4                                                                    |
| R5 | THOUSANDS OF DOLLARS            | R5                                                                    |
| R9 | THOUSAND CUBIC METERS           | R9                                                                    |
| RR | RACK                            | RA                                                                    |
| RB | RADIAN                          | RB                                                                    |
| RC | ROD (AREA) - 16.25 SQUARE YARDS | RC                                                                    |
| RD | ROD (LENGTH) - 5.5 YARDS        | RD                                                                    |
| RL | REEL                            | RE                                                                    |
| RG | RING                            | RG                                                                    |
| RH | RUNNING OR OPERATING HOURS      | RH                                                                    |
| RK | ROLL-METRIC MEASURE             | RK                                                                    |
| RO | ROLL                            | RL                                                                    |
| RM | REAM                            | RM                                                                    |
| RN | REAM-METRIC MEASURE             | RN                                                                    |

|           |                                        |    |
|-----------|----------------------------------------|----|
| <b>RE</b> | ROUND                                  | RO |
| <b>RP</b> | POUNDS PER REAM                        | RP |
| <b>RS</b> | RESETS                                 | RS |
| <b>RT</b> | REVENUE TON MILES                      | RT |
| <b>RU</b> | RUN                                    | RU |
| <b>RX</b> | THOUSAND ROUNDS                        | RX |
| <b>S5</b> | SIXTY-FOURTHS OF AN INCH               | S5 |
| <b>S6</b> | SESSIONS                               | S6 |
| <b>S7</b> | STORAGE UNITS                          | S7 |
| <b>SW</b> | STANDARD ADVERTISING UNIT              | S8 |
| <b>S9</b> | SLIP SHEET                             | S9 |
| <b>SA</b> | SANDWICH                               | SA |
| <b>M2</b> | SQUARE MILE                            | SB |
| <b>C2</b> | SQUARE CENTIMETER                      | SC |
| <b>SN</b> | SECTION (640 ACRES OR ONE SQUARE MILE) | SE |
| <b>SF</b> | SQUARE FOOT                            | SF |
| <b>SG</b> | SEGMENT                                | SG |
| <b>SH</b> | SHEET                                  | SH |
| <b>SI</b> | SQUARE INCH                            | SI |
| <b>SJ</b> | SACK                                   | SJ |
| <b>SR</b> | SPLIT TANKTRUCK                        | SK |
| <b>SV</b> | SLEEVE                                 | SL |
| <b>SM</b> | SQUARE METER                           | SM |
| <b>SU</b> | SQUARE ROD                             | SN |
| <b>SL</b> | SPOOL                                  | SO |
| <b>S8</b> | SHELF PACKAGE                          | SP |
| <b>SQ</b> | SQUARE                                 | SQ |
| <b>SP</b> | STRIP                                  | SR |
| <b>SS</b> | SHEET-METRIC MEASURE                   | SS |
| <b>SE</b> | SET                                    | ST |
| <b>SD</b> | SKID                                   | SV |
| <b>SK</b> | SKEIN                                  | SW |
| <b>SB</b> | SHIPMENT                               | SX |
| <b>SY</b> | SQUARE YARD                            | SY |
| <b>SZ</b> | SYRINGE                                | SZ |
| <b>T1</b> | THOUSAND POUNDS GROSS                  | T1 |
| <b>T3</b> | THOUSAND PIECES                        | T3 |
| <b>T4</b> | THOUSAND BAGS                          | T4 |
| <b>T5</b> | THOUSAND CASINGS                       | T5 |
| <b>T6</b> | THOUSAND GALLONS                       | T6 |
| <b>T7</b> | THOUSAND IMPRESSIONS                   | T7 |
| <b>T8</b> | THOUSAND LINEAR INCHES                 | T8 |
| <b>T9</b> | THOUSAND KILOWATT HOURS/MEGAWATT-HOUR  | T9 |
| <b>TA</b> | TENTH CUBIC FOOT                       | TA |
| <b>TU</b> | TUBE                                   | TB |

|           |                                                  |                                                                                             |
|-----------|--------------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>TC</b> | TRUCK LOAD                                       | TC                                                                                          |
| <b>TG</b> | GROSS TON                                        | TG                                                                                          |
| <b>MX</b> | THOUSAND                                         | TH                                                                                          |
| <b>TI</b> | THOUSAND SQUARE INCHES                           | TI                                                                                          |
| <b>TJ</b> | THOUSAND SQUARE CENTIMETERS                      | TJ                                                                                          |
| <b>TK</b> | TANK                                             | TK                                                                                          |
| <b>MF</b> | THOUSAND FEET                                    | TL                                                                                          |
| <b>TM</b> | THOUSAND FEET (BOARD)                            | TM                                                                                          |
| <b>TN</b> | NET TON (2,000 POUNDS)                           | TN                                                                                          |
| <b>TO</b> | TROY OUNCE                                       | TO                                                                                          |
| <b>TV</b> | TEN-PACK                                         | TP                                                                                          |
| <b>TQ</b> | THOUSAND FEET                                    | TQ                                                                                          |
| <b>TR</b> | TEN SQUARE FEET                                  | TR                                                                                          |
| <b>TZ</b> | THOUSAND SQUARE FEET                             | TS                                                                                          |
| <b>TL</b> | THOUSAND LINEAR METERS                           | TT                                                                                          |
| <b>TX</b> | THOUSAND LINEAR YARDS                            | TU                                                                                          |
| <b>TH</b> | THOUSAND KILOGRAMS                               | TV                                                                                          |
| <b>TW</b> | THOUSAND SHEETS                                  | TW                                                                                          |
| <b>TP</b> | TROY POUND                                       | TX                                                                                          |
| <b>TY</b> | TRAY                                             | TY                                                                                          |
| <b>MC</b> | THOUSAND CUBIC FEET                              | TZ                                                                                          |
| <b>U1</b> | TREATMENT                                        | U1                                                                                          |
| <b>TT</b> | TABLET                                           | U2                                                                                          |
| <b>TE</b> | TEN                                              | U3                                                                                          |
| <b>U5</b> | TWO HUNDRED FIFTY                                | U5                                                                                          |
| <b>U6</b> | UNITED STATES GALLONS @ 60 DEGREES<br>FAHRENHEIT | U6 (MIGRATION CODE APPROVED FOR<br>VERSION TO BE PUBLISHED JAN 2014. REFER TO<br>ADC 1008.) |
| <b>UH</b> | TEN THOUSAND YARDS                               | UH                                                                                          |
| <b>UL</b> | UNITLESS                                         | UL                                                                                          |
| <b>UM</b> | MILLION UNITS                                    | UM                                                                                          |
| <b>UN</b> | UNIT                                             | UN                                                                                          |
| <b>UP</b> | TROCHE                                           | UP                                                                                          |
| <b>UQ</b> | WAFER                                            | UQ                                                                                          |
| <b>AD</b> | APOTHECARY DRAM                                  | UX                                                                                          |
| <b>V1</b> | FLAT                                             | V1                                                                                          |
| <b>V2</b> | POUCH                                            | V2                                                                                          |
| <b>VC</b> | FIVE HUNDRED                                     | VC                                                                                          |
| <b>VI</b> | VIAL                                             | VI                                                                                          |
| <b>VS</b> | VISIT                                            | VS                                                                                          |
| <b>W2</b> | WET KILO                                         | W2                                                                                          |
| <b>WB</b> | WET POUND                                        | WB                                                                                          |
| <b>WD</b> | WORK DAY                                         | WD                                                                                          |
| <b>WE</b> | WET TON                                          | WE                                                                                          |
| <b>WG</b> | WINE GALLON                                      | WG                                                                                          |

|           |                    |                                                                       |
|-----------|--------------------|-----------------------------------------------------------------------|
| <b>WH</b> | WHEEL              | WH                                                                    |
| <b>WK</b> | WEEK               | WK                                                                    |
| <b>DW</b> | PENNYWEIGHT        | WP                                                                    |
| <b>WR</b> | WRAP               | WR                                                                    |
| <b>CH</b> | CHAIN              | X1                                                                    |
| <b>X2</b> | BUNCH              | X2                                                                    |
| <b>X3</b> | CLOVE              | X3                                                                    |
| <b>X4</b> | DROP               | X4                                                                    |
| <b>X5</b> | HEAD               | X5                                                                    |
| <b>X6</b> | HEART              | X6                                                                    |
| <b>X7</b> | LEAF               | X7                                                                    |
| <b>X8</b> | LOAF               | X8                                                                    |
| <b>X9</b> | PORTION            | X9                                                                    |
| <b>Y1</b> | SLICE              | Y1                                                                    |
| <b>TB</b> | TABLESPOON         | Y2                                                                    |
| <b>T2</b> | TEASPOON           | Y3                                                                    |
| <b>Y4</b> | TUB                | Y4                                                                    |
| <b>YD</b> | YARD               | YD                                                                    |
| <b>YL</b> | 100 LINEAL YARDS   | YL                                                                    |
| <b>YR</b> | YEAR               | YR                                                                    |
| <b>Z1</b> | LIFT VAN           | Z1                                                                    |
| <b>Z2</b> | CHEST              | Z2                                                                    |
| <b>Z3</b> | CASK               | Z3                                                                    |
| <b>HH</b> | HOGSHEAD           | Z4                                                                    |
| <b>Z5</b> | LUG                | Z5                                                                    |
| <b>PA</b> | PAGE               | ZP                                                                    |
| <b>B2</b> | BARREL, DRY        | ZW (X12 VERSION RELEASE 005020<br>MIGRATION CODE. REFER TO ADC 1008.) |
| <b>B1</b> | BARREL, LIQUID     | ZX (X12 VERSION RELEASE 005020<br>MIGRATION CODE. REFER TO ADC 1008.) |
| <b>AS</b> | APOTHECARY SCRUPLE | ZY (X12 VERSION RELEASE 005020<br>MIGRATION CODE. REFER TO ADC 1008.) |