

CIO Application Maintenance,
Enhancements, and Operations (CAMEO SB)

**FAS Sales Reporting (TDR)
Interface Control Document for
Special Character Separated Value (.csv)
File Upload**

In response to:

Prepared for:

ATTN: TBD
1800 F Street NW,
Washington, D.C. 20405

In support of:

FAS Office of the Chief Information Officer

Prepared by:

TODO: Karsun Solutions LLC
13655 Dulles Technology Drive, Suite 110
Herndon, VA 20171

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Document History

Version	Description	Date
1.0	Initial Draft	7/12/2016
2.0	Domain values of Non Federal Entity are changed. Refer 2.2.7 Section. Added additional Unit Measures description.	2/28/2017
2.1	Added instructions for reporting Return line items and Discount line items. Refer 2.2.1.1 & 2.2.1.2 Domain values of Unit Measures (PPD/VD/RTN) are added. Refer 2.2.6 Section.	5/26/2017

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1 Introduction

1.1 Scope

This document describes how to report transactional sales data using CSV File Upload method on the FAS Sales Reporting application. The document provides guidance on format and data element definitions of the file, interface design, sample file and sample output.

1.2 Authentication

Vendor is required to have a Digital certificate and be a point of contact (Admin rep or IFF Rep or an Authorized negotiator) on the Contract in order for the FAS Sales Reporting application to authenticate and authorize the Vendor to report sales. After logging into the application with a valid digital certificate, users can upload the CSV File to report transactional sales data.

2 CSV File Upload

2.1 Scope

The scope of this document is to define the format of CSV file, of its data elements and how upload the file in the application. (<https://srp.fas.gsa.gov>).

2.2 Report Sales Data through CSV File

Users can upload transactional sales data into the FAS Sales Reporting application using a CSV spreadsheet with Special character delimited file. A pipe character (|) has been used for delimiting the data. CSV File contains the same required fields as those found in the Report data by Form Entry page. The Report data by File upload feature allows you to enter data for multiple contracts at once.

2.2.1 Instructions for preparing sales data using CSV File Format

For a successful and timely submission of sales data by uploading CSV file please follow these step by step instructions:

1. Save an empty file template to your computer with **.csv** extension.
2. Enter your contract number(s) in column A for each line item.
3. Enter your sales data in the 12 Columns provided. Columns that are required fields are marked with Asterisk. See Definition of Data Fields below for explanation of each column. Follow the same order by using pipe delimiter ('|').

Contract/BPA Number*|Order Number/PIID*|Description of Deliverable*|Manufacturer Name|Manufacturer Part Number|Unit Measure*|Quantity of Item Sold*|Universal Product Code|SIN Number|Price Paid per Unit (US\$)*|Total Price (US\$)*|Non-Federal Entity*

4. Once sales data (all orders and line items for one or more Contracts) is entered into the spreadsheet, save the file to your local drive.
5. Login to TDR portal via <https://srp.fas.gsa.gov> with a digital certificate and navigate to 'Home > Report Data via File Upload' option.

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6. Once on the **Report Data via File Upload** page, choose the appropriate reporting period
7. Then browse for the saved file in Step 4 and click on 'Submit'.
8. When you click on 'Submit' you will be prompted to certify that all data being submitted is 'True and accurate'. If you agree, accept and click 'Submit'. If not, go back and make necessary changes to the CSV file.

2.2.1.1 Reporting Return Line Items

1. Enter relevant information for all required fields (Contract Number, Order Number, Description of Deliverable, Unit of Measure, Quantity of Items Sold, Unit Price, and Total Price).
2. Under Unit Measure specify "RTN"
3. Under Quantity of Items Sold, specify the number of items returned. This should be a negative value.
4. Under Price Paid per Unit (US\$), enter the unit price of the items returned. This should be a positive US\$ amount
5. Under Total Price (US\$), enter the Total Price derived from Quantity of Items Sold * Price Paid per Unit (US\$). This should be a negative value.

2.2.1.2 Reporting Discount Line Items

6. Enter relevant information for all required fields (Contract Number, Order Number, Description of Deliverable, Unit of Measure, Quantity of Items Sold, Unit Price, and Total Price).
7. Under Unit Measure specify either "VD" for Volume Discount or "PPD" for Prompt Payment Discount
8. Under Quantity of Items Sold, specify the number of discounts applied to a given order. This should be a negative value.
9. Under Price Paid per Unit (US\$), enter the dollar amount of the discount. This should be a positive US\$ amount.
10. Under Total Price (US\$) enter the Total Price derived from Quantity of Items Sold * Price Paid per Unit (US\$). This should be a negative value.

Definitions of Data Fields:

Field Label with Order	Field Description	Required Fields	Column Order
Contract or BPA Number	Enter GSA Formal Contract Number. No Dashes required	Required	1
Order Number/Procurement Instrument Identifier (PIID)	Enter the Order number. If an Order number has multiple items repeat the Order number for each line item	Required	2
Description of Deliverable (Maximum 1000 Characters)	Provide a description of the item	Required	3

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Manufacturer Name	Enter manufacturer's name of the product		4
Manufacturer Part Number	Enter manufacturer's number of the product. This should be numeric value.		5
Universal Product Code (UPC)	Enter UPC		6
SIN Number	Enter SIN Number		7
Unit Measure	Enter the Unit of Measure e.g. Each, Hour, etc.	Required	8
Quantity of Item Sold	Enter a numerical value	Required	9
Price Paid per Unit	Enter a dollar value	Required	10
Total Price Paid	This field is a product of 'Quantity of Item Sold' and 'Price paid per Unit'. This field will be calculated by TDR	Required	11
Non Federal Entity	If the Order was received from an appropriate Non Federal Entity, select codes specified in 2.2.7 section	Required	12

Input Data format: CSV file

2.2.2 Sample CSV File

Sample File Format:

Contract/BPA Number* | Order Number/PIID* | Description of Deliverable* | Manufacturer Name | Manufacturer Part Number | Unit Measure* | Quantity of Item Sold* | Universal Product Code | SIN Number | Price Paid per Unit (US\$)* | Total Price (US\$)* | Non-Federal Entity*

GS07F0052Y | 8376016 | For a SET of Ballpoint Pens | HAMMEREAMILL | 86700 | CH | 10 | 42976143480 | 22222 | 33.48 | 334.80 | N/A

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GS07F0053Z | 8374343 | Set contains 12 markers, eraSET | CIVCO MEDECIGRAMCARTRIDGEL SOLUTIONS | 610575 | BX | 10 | 42976143480 | 1233 | 234.58 | 2345.80 | OTH

2.2.3 Output

If the uploaded file was successfully processed, you will see “Submitted” as the Report Status on the upload history page.



The screenshot shows a form with a 'Reporting Period' dropdown set to '01-2015' and a 'Report Date' of '07/15/2016'. Below the form is an 'Upload History' table with the following data:

Reporting Period	Confirmation Number	File Name	Date Received	Report Status
01-2015	20160706:124607	Multi-Contract-CSV-1.csv	2016-07-06 12:46:07	Submitted

If the uploaded file could not be successfully processed, you will see “REJECTED” as the Report status on the upload history page.



The screenshot shows the same form as above, but the 'Report Status' in the 'Upload History' table is 'Rejected'.

Reporting Period	Confirmation Number	File Name	Date Received	Report Status
01-2015	20160706:124607	Multi-Contract-CSV-1.csv	2016-07-06 12:46:07	Rejected

2.2.4 Sample Rejected Messages

By clicking on info hyperlink on rejected status, users can see detailed error messages.



Scenario 1: If you choose a reporting period which was not current (or valid) for saved contract, then you will see rejected message similar to the one shown below.

Invalid Reporting period. Contract Number: GS14F0049M - Transactional sales data was not reported for a previous reporting period. Please complete reporting for previous reporting periods before reporting for the selected reporting period.

Scenario 2: Large data file uploads could take more than a few minutes. The file will be accepted and processed asynchronously. Therefore, to appropriately queue the files and prevent multiple file uploads for the same reporting period the system will put the file uploaded in an “In-Progress” status and lock the reporting period until the processing is complete. If a user tries to upload another file during this status, you will see rejected message similar to the one shown below.

TDR Sales Data was IN-PROGRESS for Contract Number: GS35F0258L and Reporting Period 01-2015. Please wait till it gets processed.

Scenario 3: If the total price value (product of Quantity and Unit price) is invalid according to other entered values you will see rejected message similar to the one shown below.

Row No 3: Total Price value is invalid as per 'Quantity of Item Sold' and 'Price Paid per Unit'.

Scenario 4: If you try to upload sales data for a Contract not assigned to the user you will see rejected message similar to the one shown below.

Contract Number: GS14F0049MM is not found. Please check the contract number and submit again

Scenario 5: If you already reported data for a particular reporting period but trying to report again you will see rejected message similar to the one shown below.

Contract Number: GS35F0661S - Transactional sales data was already reported for selected Reporting Period.

Scenario 6: If you do not include any required fields you will see rejected message similar to the one shown below.

Row No 3: Description of Deliverable is required.

Scenario 7: If you report a discount but do not have a related sales line item for the same order number then you will see the following error message. Ensure your discount line item always has a corresponding sales line item

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Row No 3: Discount amount cannot be reported for an order where no sales have been reported.

2.2.5 Data Elements

The following table shows the TDR field names and data definitions.

System Field Name	XML Field Name	Data Type	Max Field Length	Require Field
DUNS	duns	Numeric (Non decimal)	9	Not Null
Contract No.	contract_id	String	16	Required Field
Order/Procurement Instrument Identifier (PIID)	orderNbrPiid	Alphanumeric	35	Required Field
Description of Deliverable	descDeliverable	Alphanumeric	1000	Required Field
Manufacturer Name	Name	Alphanumeric	40	Optional
Manufacturer Part Number	partNumber	Alphanumeric	40	Optional
Unit Measure	unitMeasure	Drop down	25	Required Field
Universal Product Code	Upc	Numeric	14	Required Field, if not applicable it is 0
Quantity of Items Sold	quantitySold	Numeric (decimal)	0.00 to 99999999.9999	Required Field
Price Paid per Unit	pricePerUnit	Number (\$\$)	0.00 to 99999999.9999	Required Field
Total Price	totalPrice	Number (\$\$)	0.00 to 99999999.9999	Required Field
Non Federal Entity	nonGovEntity	Alphanumeric	Not applicable	Required Field
Reporting Period	reportingPeriod	String	7 (MM-YYYY)	Required Field
SIN	sin_number	String	15	Optional
Request Id	RequestId	String	30	Required Field
Requesting System	RequestingSystem	String	30	Required Field
Request TimeStamp	TimeStamp	DateTime		Required Field
User ID	userId	String	15	Required Field
Password	Password	String	8	Required Field

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System Field Name	XML Field Name	Data Type	Max Field Length	Require Field
Adjustment Justification	Adjust	String	500	Optional
Response Id	Responseld	String	30	Required Field
Status	Status	String	30	Required Field
Response TimeStamp	TimeStamp	DateTime		Required Field
Error Code	Code	String		Optional
Error Description	Description	String		Optional
id	Id	Sequence number		Required Field
Closeout	Closeout	Boolean	true/false	Optional
Trading Partner	TradePartner	String		Required

2.2.6 Unit Measures

The following are only the unit of measures supported in TDR application. The unit description should need to be sent in the request.

Unit Abbreviation	Unit Description
01	ACTUAL POUNDS
02	STATUTE MILE
03	SECONDS
04	SMALL SPRAY
05	LIFTS
08	HEAT LOTS
10	GROUP
11	OUTFIT
12	PACKET
13	RATION
14	SHOT
15	STICK
16	115 KILOGRAM DRUM
17	100 POUND DRUM
19	TANK TRUCK
20	20 FOOT CONTAINER
21	40 FOOT CONTAINER

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22	DECILITER PER GRAM
23	GRAMS PER CUBIC CENTIMETER
24	THEORETICAL POUNDS
25	GRAMS PER SQUARE CENTIMETER
26	ACTUAL TONS
27	THEORETICAL TONS
28	KILOGRAMS PER SQUARE METER
29	POUNDS PER 1000 SQUARE FEET
30	HORSEPOWER DAYS PER AIR DRY METRI
32	KILOGRAMS PER AIR DRY METRIC TONS
33	KILOPASCAL SQUARE METERS PER GRAM
34	KILOPASCALS PER MILLIMETER
35	MILLILITERS PER SQUARE CENTIMETER
37	OUNCES PER SQUARE FOOT
38	OUNCES PER SQUARE FOOT PER 0.01 I
40	MILLILITER PER SECOND
41	MILLILITER PER MINUTE
43	SUPER BULK BAG
44	500 KILOGRAM BULK BAG
45	300 KILOGRAM BULK BAG
46	25 KILOGRAM BULK BAG
47	50 POUND BAG
48	BULK CAR LOAD
50	ACTUAL KILOGRAMS
51	ACTUAL TONNES
52	CREDITS
53	THEORETICAL KILOGRAMS
54	THEORETICAL TONNES
56	SITAS
57	MESH
58	NET KILOGRAMS
59	PARTS PER MILLION

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60	PERCENT WEIGHT
61	PARTS PER BILLION
62	PERCENT PER 1000 HOURS
63	FAILURE RATE IN TIME
64	POUNDS PER SQUARE INCH GAUGE
65	COULOMB
66	OERSTEDS
67	SIEMENS
68	AMPERE
69	TEST SPECIFIC SCALE
70	VOLT
71	VOLT-AMPERE PER POUND
72	WATTS PER POUND
73	AMPERE TURN PER CENTIMETER
74	MILLI PASCALS
76	GAUSS
77	MIL
78	KILOGAUSS
79	ELECTRON VOLT
80	POUNDS PER SQUARE INCH ABSOLUTE
81	HENRY
82	OHM
83	FARAD
84	KILO POUNDS PER SQUARE INCH (KSI)
85	FOOT POUNDS
86	JOULES
87	POUNDS PER CUBIC FOOT
89	POISE
90	SAYBOLD UNIVERSAL SECOND
91	STOKES
92	CALORIES PER CUBIC CENTIMETER
93	CALORIES PER GRAM
94	CURL UNITS
95	20,000 GALLON TANKCAR
96	10000 GALLON TANKCAR

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97	10 KILOGRAM DRUM
98	15 KILOGRAM DRUM
1A	CAR MILE
1B	CAR COUNT
1C	LOCOMOTIVE COUNT
1D	CABOOSE COUNT
1E	EMPTY CAR
1F	TRAIN MILE
1G	FUEL USAGE (GALLONS)
1H	CABOOSE MILE
1I	FIXED RATE
1J	TON MILES
1K	LOCOMOTIVE MILE
1L	TOTAL CAR COUNT
1M	TOTAL CAR MILE
1N	COUNT
1O	SEASON
1X	QUARTER MILE
2A	RADIANS PER SECOND
2B	RADIANS PER SECOND SQUARED
2C	ROENTGEN
2F	VOLTS PER METER
2G	VOLTS (ALTERNATING CURRENT)
2H	VOLTS (DIRECT CURRENT)
2I	BRITISH THERMAL UNITS (BTUS) PER
2J	CUBIC CENTIMETERS PER SECOND
2K	CUBIC FEET PER HOUR
2L	CUBIC FEET PER MINUTE
2M	CENTIMETERS PER SECOND
2N	DECIBELS
2P	KILOBYTE
2Q	KILOBECQUEREL UNIT OF RADIATION
2R	KILOCURIE UNIT OF RADIATION
2U	MEGAGRAM
2V	MEGAGRAMS PER HOUR

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2W	BIN
2X	METERS PER MINUTE
2Y	MILLIROENTGEN
2Z	MILLIVOLTS
3B	MEGAJoule
3C	MANMONTH
3E	POUNDS PER POUND OF PRODUCT
3F	KILOGRAMS PER LITER OF PRODUCT
3G	POUNDS PER PIECE OF PRODUCT
3H	KILOGRAMS PER KILOGRAM OF PRODUCT
3I	KILOGRAMS PER PLACE OF PRODUCT
4A	BOBBIN
4B	CAP
4C	CENTISTOKES
4D	CURIE
4E	20-PACK
4F	100-PACK
4G	MICROLITER
4H	MICROMETER
4I	METERS PER SECOND
4J	METERS PER SECOND PER SECOND 4K
4L	MEGABYTE
4M	MILLIGRAMS PER HOUR
4N	MEGABECQUAREL
4O	MICROFARAD
4P	NEWTONS PER METER
4Q	OUNCE INCH
4R	OUNCE FOOT
4S	PASCAL
4T	PICOFARAD
4U	POUNDS PER HOUR
4V	CUBIC METER PER HOUR
4W	TON PER HOUR
4X	KILOLITER PER HOUR
5A	BARRELS PER MINUTE

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5B	BATCH
5C	GALLONS PER THOUSAND
5E	MMSCF/DAY
5F	POUNDS PER THOUSAND
5G	PUMP
5H	STAGE
5I	STANDARD CUBIC FOOT
5J	HYDRAULIC HORSE POWER
5K	COUNT PER MINUTE
5P	SEISMIC LEVEL
5Q	SEISMIC LINE
A8	DOLLARS PER HOURS
AA	BALL
AB	BULK PACK
AC	ACRE
AD	BYTES
AE	AMPERES PER METER
AF	CENTIGRAM
AH	ADDITIONAL MINUTES
AI	AVERAGE MINUTES PER CALL
AJ	COP
AK	FATHOM
AL	ACCESS LINES
AM	AMPOLUE
AN	MINUTES OR MESSAGES
AP	ALUMINUM POUNDS ONLY
AQ	ANIT-HEMOPHILIC FACTOR (AHF) UNIT
AR	SUPPOSITORY
AS	ASSORTMENT
AT	ATMOSPHERE
AU	OCULAR INSERT SYSTEM
AV	CAPSULE
AW	POWDER-FILLER VIALS
AX	TWENTY
AY	ASSEMBLY
AZ	BRITISH THERMAL UNITS (BTUS) PER
B0	BRITISH THERMAL UNITS (BTUS) PER

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B1	BARRELS PER DAY
B2	BUNKS
B3	BATTTING POUND
B5	BILLET
B6	BUN
B7	CYCLES
B8	BOARD
B9	BATT
BA	BALE
BB	BASE BOX
BC	BUCKET
BD	BUNDLE
BE	BEAM
BF	BOARD FEET
BG	BAG
BH	BRUSH
BI	BAR
BJ	BAND
BK	BOOK
BL	BLOCK
BM	BOLT
BN	BULK
BO	BOTTLE
BP	100 BOARD FEET
BQ	BRAKE HORSE POWER
BR	BARREL
BS	BASKET
BT	BELT
BU	BUSHEL
BV	BUSHEL, DRY IMPERIAL
BW	BASE WEIGHT
BX	BOX
BY	BRITISH THERMAL UNIT (BTU)
BZ	MILLION BTU'S
C0	CALLS
C1	COMPOSITE PRODUCT POUNDS (TOTAL W
C2	CARSET
C3	CENTILITER

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C4	CARLOAD
C5	COST
C6	CELL
C7	CENTIPOISE (CPS)
C8	CUBIC DECIMETER
C9	COIL GROUP
CA	CASE
CB	CARBOY
CC	CUBIC CENTIMETER
CD	CARAT
CE	CENTIGRADE, CELSIUS
CF	CUBIC FEET
CG	CARD
CH	CONTAINER
CI	CUBIC INCHES
CJ	CONE
CK	CONNECTOR
CL	CYLINDER
CM	CENTIMETER
CN	CAN
CO	CUBIC METERS (NET)
CP	CRATE
CQ	CARTRIDGE
CR	CUBIC METER
CS	CASSETTE
CT	CARTON
CU	CUP
CV	COVER
CW	HUNDRED POUNDS (CWT)
CX	COIL
CY	CUBIC YARD
CZ	COMBO
D2	SHARES
D3	SQUARE DECIMETER
	KILOGRAM PER SQUARE
D5	CENTIMETER
D8	DRAIZE SCORE
	DYNE PER SQUARE
D9	CENTIMETER
DA	DAYS

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DB	DRY POUNDS
DC	DISK (DISC)
DD	DEGREE
DE	DEAL
DF	DRAM
DG	DECIGRAM
DH	MILES
DI	DISPENSER
DJ	DECAGRAM
DK	KILOMETERS
DL	DECILITER
DM	DECIMETER
DN	DECI NEWTON-METER
DO	DOLLARS, U.S.
DP	DOZEN PAIR
DQ	DATA RECORDS
DR	DRUM
DS	DISPLAY
DT	DRY TOM
DU	DYNE
DX	DYNES PER CENTIMETER
DY	DIRECTORY BOOKS
DZ	DOZEN
E1	HECTOMETER
E3	INCHES, FRACTION-- AVERAGE
E4	INCHES, FRACTION-- MINIMUM
E5	INCHES, FRACTION-- ACTUAL
E7	INCHES, DECIMAL-- AVERAGE
E8	INCHES, DECIMAL--ACTUAL
E9	ENGLISH, (FEET, INCHES)
EA	EACH
EB	ELECTRONIC MAIL BOXES
EC	EACH PER MONTH
ED	INCHES, DECIMAL-- NOMINAL
EF	INCHES, FRACTION- NOMINAL

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EM	INCHES, DECIMAL-MINIMUM
EP	ELEVEN PACK
EQ	EQUIVALENT GALLONS
EV	ENVELOPE
EX	FEET, INCHES AND FRACTION
EY	FEET, INCHES AND DECIMAL
EZ	FEET AND DECIMAL
F1	THOUSAND CUBIC FEET PER DAY
F9	FIBERS PER CUBIC CENTIMETER OF AI
FA	FAHRENHEIT
FB	FIELDS
FC	1000 CUBIC FEET
FD	MILLION PARTICLES PER CUBIC FOOT
FE	TRACK FOOT
FF	HUNDRED CUBIC METERS
FG	TRANSDERMAL PATCH
FH	MICROMOLAR
FL	FLAKE TON
FM	MILLION CUBIC FEET
FO	FLUID OUNCE
FP	POUNDS PER SQ. FT.
FR	FEET PER MINUTE
FS	FEET PER SECOND
FT	FOOT
FZ	FLUID OUNCE (IMPERIAL)
G2	U.S. GALLONS PER MINUTE
G3	IMPERIAL GALLONS PER MINUTE
G4	GIGABECQUEREI
G5	GILL (IMPE6AI)
G7	MICROFICHE SHEET
GA	GALLON
GB	GROSS BARRELS
GC	GRAMS PER 100 GRAMS
GD	GALLONS/DAY
GE	POUNDS PER GALLON

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GF	GRAMS PER 100 CENTIMETERS
GG	GREAT GROSS (DOZEN GROSS)
GH	HALF GALLON
GI	IMPERIAL GALLONS
GJ	GRAMS PER MILLILITER
GK	GRAMS PER KILOGRAM
GL	GRAMS PER LITER
GM	GRAMS PER SQ. METER
GN	GROSS GALLONS
GO	MILLIGRAMS PER SQUARE METER
GP	MILLIGRAMS PER CUBIC METER
GQ	MICROGRAMS PER CUBIC METER
GR	GRAM
GS	GROSS
GT	GROSS KILOGRAM
GV	GIGAJOULES
GW	GALLONS PER THOUSAND CUBIC FEET
GX	GRAIN
GY	GROSS YARD
GZ	GAGE SYSTEMS
H1	HALF PAGES - ELECTRONIC
H2	HALF LITER
H4	HECTOLITER
HA	HANK
HB	HUNDRED BOXES
HC	HUNDRED COUNT
HD	HALF DOZEN
HE	HUNDRETH OF A CARAT
HF	HUNDRED FEET
HG	HECTOGRAM
HH	HUNDRED CUBIC FEET
HI	HUNDRED SHEETS
HJ	HORSEPOWER
HK	HUNDRED KILOGRAMS
HL	HUNDRED FEET -LINEAR

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HM	MILES PER HOUR
HN	MILLIMETERS OF MERCURY
HO	HUNDRED TROY OUNCES
HP	MILLIMETER H2O
HR	HOURS
HS	HUNDRED SQUARE FEET
HT	HALF HOUR
HU	HUNDRED
HV	HUNDRED WEIGHT (SHORT)
HW	HUNDRED WEIGHT (LONG)
HY	HUNDRED YARDS
HZ	HERTZ
IA	INCH POUND
IB	INCHES PER SECOND (VIBRATION VELOCITY)
IC	COUNTS PER INCH
IE	PERSON
IF	INCHES OF WATER
IH	INHALER
II	COLUMN INCHES
IL	INCHES PER MINUTE
IM	IMPRESSIONS
IN	INCH
IP	INSURANCE POLICY
IT	COUNTS PER CENTIMETER
IU	INCHES PER SECOND (LINEAR SPEED)
IV	INCHES PER SECOND PER SECOND (ACCELERATION)
IW	INCHES PER SECOND PER SECOND (VIBRATION ACC)
JB	JUMBO
JE	JOULE PER KELVIN
JG	JOULE PER GRAM
JK	MEGA JOULE PER KILOGRAM
JM	MEGA JOULE/CUBIC METER
JO	JOINT
JR	JAR
JU	JUG
K1	KILOWATT DEMAND

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Enhancements, and Operations (CAMEO SB)**

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K2	KILOVOLT AMPERES REACTIVE DEMAND
K3	KILOVOLT AMPERES REACTIVE HOUR
K4	KILOVOLT AMPERES
K5	KILOVOLT AMPERES REACTIVE
K6	KILOLITER
K7	KILOWATT
KA	CAKE
KB	KILOCHARACTERS
KC	KILOGRAMS PER CUBIC METER
KD	KILOGRAMS DECIMAL
KE	KEG
KF	KILOPACKETS
KG	KILOGRAM
KH	KILOWATT HOUR
KI	KILOGRAMS/MILLIMETER WIDTH
KJ	KILOSEGMENTS
KK	100 KILOGRAMS
KL	KILOGRAMS/METER
KM	KILOGRAMS PER SQUARE METER, KILOGRAMS, DECIMAL
KO	MILLEQUIVALENCE CAUSTIC POTASH/GRAM OF PRODUCT
KP	JOULE PER KILOGRAM
KQ	KILOPASCAL
KR	KILOROENTGEN
KS	1000 POUNDS PER SQUARE INCH
KT	KIT
KV	KELVIN
KW	KILOGRAMS PER MILLIMETER
KX	MILLILITERS PER KILOGRAM
L2	LITERS PER MINUTE
LA	POUNDS PER CUBIC INCH
LB	POUND

CIO Application Maintenance, Enhancements, and Operations (CAMEO SB)

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LC	LINEAR CENTIMETER
LD	LITERS PER DAY
LE	LITE
LF	LINEAR FOOT
LG	LONG TON
LH	LABOR HOURS
LI	LINEAR INCH
LJ	LARGE SPRAY
LK	LINK
LL	LIFETIME
LM	LINEAR METER
LN	LENGTH
LO	LOT
LP	LIQUID POUNDS
LR	LAYER(S)
LS	LUMP SUM
LT	LITER
LX	LINEAR YARDS PER POUND
LY	LINEAR YARD
M0	MAGNETIC TAPES
M2	MILLIMETER-ACTUAL
M3	MAT
M4	MONETARY VALUE
M5	MICROCURIE
M6	MILLIBAR
M7	MICRO INCH
M8	MEGA PASCALS
M9	MILLION BRITISH THERMAL UNITS PER
MA	MACHINE/UNIT
MB	MILLIMETER-NOMINAL
MC	MICROGRAM
MD	AIR DRY METRIC TON
ME	MILLIGRAM
MF	MILLIGRAM PER SQ. FT. PER SIDE
MG	METRIC GROSS TON
MH	MICRONS
MJ	MINUTES
MK	MILLIGRAMS PER SQUARE INCH

**CIO Application Maintenance,
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MI	MILLIGRAMS PER LITER
ML	MILLILITER
MM	MILLIMETER
MN	METRIC NET TON
MO	MONTHS
MP	METRIC TON
MQ	1000 METERS
MR	METER
MS	SQUARE MILLIMETER
MU	MILLICURIE
MV	NUMBER OF MULTS
MW	METRIC TON KILOGRAMS
MX	MIXED
MY	MILLIMETER-AVERAGE
MZ	MILLIMETER-MINIMUM
N1	PEN CALORIES
N2	NUMBER OF LINES
N3	PRINT POINT
N4	PEN GRAMS (PROTEIN)
N6	MEGAHERTZ
N9	CARTRIDGE NEEDLE
NA	MILLIGRAMS PER KILOGRAM
NB	BARGE
NC	CAR
ND	NET BARRELS
NE	NET LITERS
NF	MESSAGES
NG	NOT GALLONS
NH	MESSAGE HOURS
NI	NET IMPERIAL GALLONS
NJ	NUMBER OF SCREENS
NL	LOAD
NM	NAUTICAL MILE
NN	TRAIN
NQ	MHO
NR	MICRO MHO
NS	SHORT TON
NT	TRAILER
NU	NEWTON-METER

**CIO Application Maintenance,
Enhancements, and Operations (CAMEO SB)**

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NV	VEHICLE
NW	NEWTON
NX	PARTS PER THOUSAND
NY	POUNDS PER AIR-DRY METRIC TON
OA	PANEL
ON	OUNCES PER SQUARE YARD
OP	TWO PACK
OT	OVERTIME HOURS
OZ	OUNCE - AV
P0	PAGES - ELECTRONIC
P1	PERCENT
P2	POUNDS PER FOOT
P3	THREE PACK
P4	FOUR-PACK
P5	FIVE-PACK
P6	SIX PACK
P7	SEVEN PACK
P8	EIGHT-PACK
P9	NINE PACK
PA	PAIL
PB	PAIR INCHES
PC	PIECE
PD	PAD
PE	POUNDS EQUIVALENT
PF	PALLET (LIFT)
PG	POUNDS GROSS
PH	PACK (PAK)
PI	PITCH
PJ	POUNDS, DECIMAL - POUNDS PER SQUA
PK	PACKAGE
PL	PALLET/UNIT LOAD
PM	POUNDS-PERCENTAGE
PN	POUNDS NET
PO	POUNDS PER INCH OF LENGTH
PP	PLATE
PQ	PAGES PER INCH
PR	PAIR
PS	POUNDS PER SQ. INCH

**CIO Application Maintenance,
Enhancements, and Operations (CAMEO SB)**

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PT	PINT
PU	MASS POUNDS
PV	HALF PINT
PW	POUNDS PER INCH OF WIDTH
PX	PINT, IMPERIAL
PY	PECK, DRY U.S.
PZ	PECK, DRY IMPANEL
Q1	QUARTER (TIME)
Q2	PINT U.S. DRY
Q3	MEAL
Q4	FIFTY
Q5	TWENTY-FIVE
Q6	THIRTY-SIX
Q7	TWENTY-FOUR
QA	PAGES - FACSIMILE
QB	PAGES - HARDCOPY
QD	QUARTER DOZEN
QH	QUARTER HOURS
QK	QUARTER KILOGRAM
QR	QUIRE
QS	QUART, DRY U.S.
QT	QUART
QU	QUART, IMPERIAL
R2	BECQUEREL
R3	REVOLUTIONS PER MINUTE
R4	CALORIE
R5	THOUSANDS OF DOLLARS
R6	MILLIONS OF DOLLARS
R7	BILLIONS OF DOLLARS
R8	THOUSAND CUBIC METERS
RA	RACK
RD	ROD
RE	REEL
RG	RING
RH	RUNNING OR OPERATING HOURS
RI	PICA
RK	ROLL-METRIC MEASURE
RL	ROLL

**CIO Application Maintenance,
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RM	REAM
RN	REAM-METRIC MEASURE
RO	ROUND
RP	POUNDS PER REAM
RS	RESETS
RT	REVENUE TON MILES
RU	RUN
S3	SQUARE FEET PER SECOND
S4	SQUARE METERS PER SECOND
S5	SIXTY-FOURTHS OF AN INCH
S6	SESSIONS
S7	STORAGE UNITS
S8	STANDARD ADVERTISING UNITS (SAUS)
S9	SLIP SHEET
SA	SANDWICH
SB	SQUARE MILE
SC	SQUARE CENTIMETER
SD	SOLID POUNDS
SE	SECTION
SF	SQUARE FOOT
SG	SEGMENT
SH	SHEET
SI	SQUARE INCH
SJ	SACK
SK	SPLIT TANKTRUCK
SL	SLEEVE
SM	SQUARE METER
SN	SQUARE ROD
SO	SPOOL
SP	SHELF PACKAGE
SQ	SQUARE
SR	STRIP
SS	SHEET-METRIC MEASURE
ST	SET
SV	SKID
SW	SKEIN
SX	SHIPMENT
SY	SQUARE YARD

**CIO Application Maintenance,
Enhancements, and Operations (CAMEO SB)**

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SZ	SYRINGE
T0	TELECOMMUNICATIONS LINES IN SERVI
T2	THOUSANDTHS OF AN INCH
T3	THOUSAND PIECES
T4	THOUSAND SAGS
T5	THOUSAND CASINGS
T6	THOUSAND GALLONS
T7	THOUSAND IMPRESSIONS
T8	THOUSAND LINEAR INCHES
T9	THOUSAND KILOWATT HOURS
TA	TENTH CUBIC FOOT
TB	TUBE
TC	TRUCKLOAD
TD	THERMS
TE	TOTE
TF	TEN SQUARE YARDS
TG	GROSS TON
TH	THOUSAND
TI	THOUSAND SQUARE INCHES
TJ	THOUSAND SQ. CENTIMETERS
TK	TANK
TL	THOUSAND FEET (LINEAR)
TM	THOUSAND FEET (BOARD)
TN	NET TON (2,000 LB).
TO	TROY OUNCE
TP	TEN-PACK
TQ	THOUSAND FEET
TR	TEN SQUARE FEET
TS	THOUSAND SQUARE FEET
TT	THOUSAND LINEAR METERS
TU	THOUSAND LINEAR YARDS
TV	THOUSAND KILOGRAMS
TW	THOUSAND SHEETS
TX	TROY POUND
TY	TRAY
TZ	THOUSAND CUBIC FEET
U1	TREATMENTS

**CIO Application Maintenance,
Enhancements, and Operations (CAMEO SB)**

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U2	TABLET
U3	TEN
U5	TWO HUNDRED FIFTY
UA	TORR
UB	TELECOMMUNICATIONS LINES IN SERVI
UC	TELECOMMUNICATIONS PORTS
UD	TENTH MINUTES
UE	TENTH HOURS
UF	USAGE PER TELECOMMUNICATIONS LINE
UH	TEN THOUSAND YARDS
UL	UNITLESS
UM	MILLION UNITS
UN	UNIT
UT	METRIC LONG TON
VA	VOLTAMPERE PER KILOGRAM
VC	FIVE HUNDRED
VI	VIAL
VS	VISIT
VT	VOLTAGE
W2	WET KILO
W4	TWO WEEK
WA	WAFTS PER KILOGRAM
WB	WET POUND
WE	WET TON
WG	WINE GALLON
WH	WHEEL
WI	WEIGHT PER SQUARE INCH
WK	WEEK
WM	WORKING MONTHS
WP	PENNYWEIGHT
WR	WRAP
WT	WATTAGE
WU	WATTAGE HOURS
WW	MILLILITERS OF WATER
X1	CHAINS (LAND SURVEY)
YD	YARD

CIO Application Maintenance, Enhancements, and Operations (CAMEO SB)

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YL	100 LINEAL YARDS
YR	YEARS
YT	TEN YARDS
Z1	LIFT VAN
Z2	CHEST
Z3	CASK
Z4	HOGSHEAD
Z5	LUG
Z6	CONFERENCE POINTS
Z8	NEWSPAPER AGATE LINE
ZP	PAGE
ZZ	MUTUALLY DEFINED
PPD	PROMPT PAYMENT DISCOUNT
VD	VOLUME DISCOUNT
RTN	RETURN

2.2.7 Non Federal Entity

Code	Description
SCP	STLOC Cooperative Purchasing
SDP	STLOC Disaster Purchasing
OTH	Other
N/A	Not Applicable