GS1 US Data Hub
Developer Portal API Data Dictionary

May 1, 2025

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API Data Schema

Field Name	Description	API	Action	Data Type	Format
ProductDescription	Describes the product	Product	Get	Text/String	200 characters
sku	Internal product identifier of yourstock keeping unit here.	Product	Get	Text/String	3-75 characters
BrandName	Indicates the name of the product line used with consumers	Product	Get	Text/String	3-70 characters
IsVariable	T/F Check for whether the productis variable measure	Product	Get	Text/String	5-9 characters
IsPurchasable	T/F Check for whether the productis purchasable	Product	Get	Text/String	5-9 characters
height	Height of product including packaging	Product	Get	Numeric	1-8 characters
width	Width of product including packaging	Product	Get	Numeric	1-8 characters
depth	Depth of product including packaging	Product	Get	Numeric	1-8 characters
dimensionMeasure	Unit of measure used for dimensions	Product	Get	Text/String	1-2 characters
grossWeight	Weight of the product plus its container or packaging	Product	Get	Numeric	1-8 characters
netWeight	Weight of the product itself	Product	Get	Numeric	1-8 characters
weightMeasure	Unit of measure used for weight	Product	Get	Text/String	2-3 characters
TargetMarket	Designated market of sale for the product	Product	Get	Text/String	
Status	Life cycle state of product	Product	Get	Text/String	5-9 characters
ModifiedDate	Date of last modification to productrecord	Product	Get		
SubBrandName	Alternate Brand Name	Product	Get	Text/String	1-2 characters
ProductDescriptionShort	Short product description	Product	Get	Text/String	1-2 characters
NetContent1Count	Product Content amount (primary)	Product	Get	Text/String	1-2 characters
NetContent1UnitOfMeasure	Product Content Unit of Measure (primary)	Product	Get	Text/String	1-2 characters
NetContent2Count	Product Content amount (2nd)	Product	Get	Text/String	1-2 characters
NetContent2UnitOfMeasure	Product Content Unit of Measure (2nd)	Product	Get	Text/String	1-2 characters
NetContent3Count	Product Content amount (3rd)	Product	Get	Text/String	1-2 characters
NetContent3UnitOfMeasure	Product Content Unit of Measure (3rd)	Product	Get	Text/String	1-2 characters
GlobalProductClassification	Global Product Classification Code	Product	Get	Text/String	
ImageURL	The web address for any product images	Product	Get	Text/String	1-2 characters

API Data Schema

Field Name	Description	API	Action	Data Type	Format
GTINStatus	The combination of the status set by the Brand Owner and the status of the underlying license	Product	Get	Text/String	1-2 characters
BrandNameLanguage1	Language for Brand Name1	Product	Get	Text/String	3-70 characters
ProductDescriptionLanguage1	Language for Product Description1	Product	Get	Text/String	3-70 characters
BrandName2	Indicates the name of the product line used with consumers (secondary market)	Product	Get	Text/String	3-70 characters
BrandNameLanguage2	Language for Brand Name2	Product	Get	Text/String	3-70 characters
ProductDescription2	Describes the product (in 2nd Language)	Product	Get	Text/String	3-200 characters
ProductDescriptionLanguage2	Language for Product Description1	Product	Get	Text/String	3-200 characters
companyName	Name of Company associated with product	Product	Get	Text/String	1-255 characters
CompanyURI	Unique Resource Identity	Product	Get	Text/String	1-8000 characters
Prefix	Company Prefix	Product	Get	Text/String	3-200 characters
gtin	This is the 14-digit representation of the Global Trade Item Number as it would be stored in a database	Product	Get	Numeric	14 characters
gtin13	13-digit number used predominately outside of North America for EAN barcodes	Product	Get	Numeric	13 characters
gtin12	The 12-digit Global Trade Item Number as it would be used with a UPC-A barcode	Product	Get	Numeric	12 characters
gtin8	The 8-digit Global Trade Item Number used predominately outside of North America for smaller products	Product	Get	Numeric	8 characters
PackagingLevel	Product position in Packaging Heirarchy	Product	Get	Text/String	12 characters
Industry	The primary industry where the product is sold	Product	Get	Text/String	3-20 characters
entityGLN	GLN used to identify a company's legal entity	Product	Get	Numeric	13 characters
ChildGTINs	Child GTINs for upper level package product	Product	Get	Text/String	1-2 characters
Quantity	Quantity of child GTINs for upper level package product	Product	Get	Text/String	1-2 characters
LabelDescription	Product label description	Product	Get	Text/String	1-2 characters
Ancestors	Product(s) above the queried product inhierarchy	Product	Get	Text/String	12 Characters
Descendants	Product(s) below the queried product inhierarchy	Product	Get	Text/String	12 Characters

API Data Schema

Field Name	Description	API	Action	Data Type	Format
gln	The Global Location Number (GLN)	Location	GET, POST	String	13 characters
gcp	The GS1 Company Prefix (GCP) for the GLN, if one exists.	Location	GET, POST	String	8 characters
companyName	The company name associated with the GLN	Location	GET, POST	String	
entityGLN	Allows users to filter by Entity GLN	Location	POST	String	13 characters
parent: gln	The immediate parent GLN of the GLN being identified	Location	GET	String	13 characters
parentGln	Allows users to filter by Parent GLN	Location	POST	String	
industry	The industry(s) associated with the GLN	Location	GET, POST	String	See Appendix D
supplyChainRole	The supply chain role(s) associated with the GLN	Location	GET, POST	String	See Appendix D
glnTypes	Identifies the various GLN Types associated with a GLN. Each GLN may have up to four GLN Types but may not have both a Fixed Physical and Mobile Physical type	Location	GET	String	FIXED_PHYSICAL_LOCATION MOBILE_PHYSICAL_LOCATION FUNCTION LEGAL_ENTITY DIGITAL_LOCATION
glnTypeCode	Allows users to filter by GLN Type	Location	POST	String	FIXED_PHYSICAL_LOCATION MOBILE_PHYSICAL_LOCATION FUNCTION LEGAL_ENTITY DIGITAL_LOCATION
locationName	Allows users to filter by Location Name regardless of GLN Type	Location	POST	String	
physicalLocationName: language	Language of Name	Location	GET	String	
physicalLocationName: value	Name of Fixed or Mobile Physical Location	Location	GET	String	

API Data Schema

Field Name	Description	API	Action	Data Type	Format
digitalLocationName: language	Language of Name	Location	GET	String	
digitalLocationName: value	Name Digital Location	Location	GET	String	
organizationName: language	Language of Name	Location	GET	String	
organizationName: value	Name of Legal Entity	Location	GET	String	
department: language	Language of Name	Location	GET	String	
department: value	Name of Function	Location	GET	String	
glnStatus	GLN Type status for the given GLN-GLN Type combination	Location	GET	String	ACTIVE, INACTIVE
countryCode	Gets the ISO 3166-1 alpha-2 country code.	Location	GET, POST	String	2 characters
streetAddress	Address Line 1	Location	GET	String	
streetAddressLine2	Address Line 2	Location	GET	String	
streetAddressLine3	Address Line 3	Location	GET	String	
addressLines	Allows users to filter by address lines regardless of the data being in line 1-3	Location	POST	String	
addressLocality	Identifies the address locality	Location	GET, POST	String	
countrySubdivisionCode	Identifies the country subdivision code	Location	GET, POST	String	4-6 characters
postalCode	Zip Code	Location	GET	String	1-10 characters
zip	Allows users to filter by postal code	Location	POST	String	
businessAttributes	Provides the business attributes assigned to the GLN	Location	GET, POST	String	
modifiedDateTime	Represents the last modified datetime of the location (UTC).	Location	GET	String	
sgln	Provides the SGLN for the identified GLN	Location	GET	String	
glnLicenseType	Identifies if the GLN derives from a GS1 Company Prefix, Single GLN, or the Managed GLN Program	Location	GET	String	GS1 Company Prefix , Single GLN , Managed GLN Program
digitalAddress	URL of Digital Location	Location	GET	String	1-2048 characters
digitalLocationUrl	Allows users to filter by the Digital Location Address and URL attribute	Location	POST	String	
corporateRelationship	Identifies the Corporate Relationship	Location	GET, POST	String	

API Data Schema

Field Name	Description	API	Action	Data Type	Format
parentOrganization: gln	Identifies the parent organization of a GLN Type	Location	GET	String	13 characters
parentOrganization: glnType	Identifies the GLN Type associated with the Parent Organization	Location	GET	String	LEGAL_ENTITY, FUNCTION, FIXED_PHYSICAL_LOCATION, MOBILE_PHYSICAL_LOCATION, DIGITAL_LOCATION
parentOrganizationGln	Allows users to filter by Parent Organization	Location	POST	String	
businessSector	Identifies the business sector associated with the GLN	Location	GET, POST	String	
name2	Identifies the Name 2 attribute associated with the GLN	Location	GET, POST	String	
replacesGln	Optional field that indicates the prior GLN for a location	Location	GET, POST	String	13 characters
parentGln	Parent Global Location Number	Location	GET	String	
organizationRole	Identifies the Organization Role attributes (if available) for the GLN	Location	GET	String	See Appendix E
locationRole	Identifies the Location Role attributes (if available) for the GLN	Location	GET, POST	String	See Appendix F
collaborativeIdType	A previously assigned party or location identifier that can be associated to a GLN to add business value	Location	GET, POST	String	See Appendix G
collaborativeIdValue	Identification number associated with the Collaborative ID type	Location	GET, POST	String	
classOfTrade1	Identifies the Class of Trade 1. This sield is required for companies in the Healthcare industry.	Location	GET, POST	String	See Appendix H
classOfTrade2	Identifies the Class of Trade 2. This sield is required for companies in the Healthcare industry.	Location	GET, POST	String	See Appendix H
classOfTrade3	Identifies the Class of Trade 3. This sield is required for companies in the Healthcare industry.	Location	GET, POST	String	See Appendix H
organizationFormationDate: from	Beginning date when an organization was created.	Location	GET, POST	ISO 8601 Date Range	8 characters
organizationFormationDate: to	Ending date of when the organization was initially created.	Location	GET, POST	ISO 8601 Date Range	8 characters

API Data Schema

Field Name	Description	API	Action	Data Type	Format
organizationTerminationDate: from	Beginning date of organization termination.	Location	GET, POST	ISO 8601 Date Range	8 characters
organizationTerminationDate: to	Ending date of organization termination.	Location	GET, POST	ISO 8601 Date Range	8 characters
locationOpeningDate: from	Beginning date of location opening	Location	GET, POST	ISO 8601 Date Range	8 characters
locationOpeningDate: to	Ending date of location opening	Location	GET, POST	ISO 8601 Date Range	8 characters
locationFinalClosureDate: from	Beginning date of location closure	Location	GET, POST	ISO 8601 Date Range	8 characters
locationFinalClosureDate: to	Ending date of location closure	Location	GET, POST	ISO 8601 Date Range	8 characters
Source	Data source of results	Company	Get	Text/String	1-18 characters
CompanyName	Company Name	Company	Get	Text/String	1-80 characters
StreetAddress1	Company Address 1	Company	Get	Text/String	1-80 characters
StreetAddress2	Company Address 2	Company	Get	Text/String	0-80 characters
StreetAddress3	Company Address 3	Company	Get	Text/String	0-80 characters
City	City	Company	Get	Text/String	1-80 characters
StateProvince	State or Province	Company	Get	Text/String	2 characters
ZipCode	Zip Code	Company	Get	Numeric	10 characters
Country	Country	Company	Get	Text/String	1-50 characters
Phone	Company Phone Number	Company	Get	Text/String	1-20 characters
EntityGLN	GLN used to identify a company'slegal entity	Company	Get	Numeric	13 characters
ModifiedDate	Date of the last change in company status or the addition of a prefix	Company	Get	Date/Time	MM/DD/YYYY HH:MM:SS xM
GSRN	Global Service Relation Number	Company	Get	Numeric	18 characters
UPCPrefix	Identification number used in the creation of UPC barcodes	Company	Get	Numeric	6-10 characters
GS1Prefix	Unique number that identifies a company as the manufacturer throughout the entire product supply-chain	Company	Get	Numeric	7-11 characters
PrefixStatus	Prefix Status	Company	Get	Text/String	Active/Inactive

Appendix A: Accepted Country Codes

Alpha_2_Code	English_Short_Name
AD	ANDORRA
AE	UNITED ARAB EMIRATES
AF	AFGHANISTAN
AG	ANTIGUA AND BARBUDA
AI	ANGUILLA
AL	ALBANIA
AM	ARMENIA
AN	NETHERLANDS ANTILLES
AO	ANGOLA
AQ	ANTARCTICA
AR	ARGENTINA
AS	AMERICAN SAMOA
AT	AUSTRIA
AU	AUSTRALIA
AW	ARUBA
AX	ÅLAND ISLANDS
AZ	AZERBAIJAN
BA	BOSNIA AND HERZEGOWINA
BB	BARBADOS
BD	BANGLADESH
BE	BELGIUM
BF	BURKINA FASO
BG	BULGARIA
BH	BAHRAIN
BI	BURUNDI
BJ	BENIN
BL	SAINT BARTHÉLEMY
BM	BERMUDA
BN	BRUNEI DARUSSALAM
BO	BOLIVIA
BQ	BONAIRE, SINT EUSTATIUS AND SABA
BR	BRAZIL
BS	BAHAMAS
BT	BHUTAN
BV	BOUVET ISLAND
BW	BOTSWANA

Alpha_2_Code	English_Short_Name
BY	BELARUS
BZ	BELIZE
CA	CANADA
CC	COCOS
CD	CONGO, THE DEMOCRATIC REPUBLIC OF THE
CF	CENTRAL AFRICAN REPUBLIC
CG	CONGO
CH	SWITZERLAND
CI	COTE D'IVOIRE
CK	COOK ISLANDS
CL	CHILE
CM	CAMEROON
CN	CHINA
CO	COLOMBIA
CR	COSTA RICA
CU	CUBA
CV	CAPE VERDE
CW	CURAÇAO
CX	CHRISTMAS ISLAND
CY	CYPRUS
CZ	CZECH REPUBLIC
DE	GERMANY
DJ	DJIBOUTI
DK	DENMARK
DM	DOMINICA
DO	DOMINICAN REPUBLIC
DZ	ALGERIA
EC	ECUADOR
EE	ESTONIA
EG	EGYPT
EH	WESTERN SAHARA
ER	ERITREA
ES	SPAIN
ET	ETHIOPIA
FI	FINLAND
FJ	FIJI

Appendix A: Accepted Country Codes

Alpha_2_Code	English_Short_Name
FK	FALKLAND ISLANDS
FM	MICRONESIA, FEDERATED STATES OF
FO	FAROE ISLANDS
FR	FRANCE
FX	FRANCE, METROPOLITAN
GA	GABON
GB	UNITED KINGDOM
GD	GRENADA
GE	GEORGIA
GF	FRENCH GUIANA
GG	GUERNSEY
GH	GHANA
GI	GIBRALTAR
GL	GREENLAND
GM	GAMBIA
GN	GUINEA
GP	GUADELOUPE
GQ	EQUATORIAL GUINEA
GR	GREECE
GS	SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS
GT	GUATEMALA
GU	GUAM
GW	GUINEA-BISSAU
GY	GUYANA
HK	HONG KONG
HM	HEARD AND MC DONALD ISLANDS
HN	HONDURAS
HR	CROATIA
HT	HAITI
HU	HUNGARY
ID	INDONESIA
IE	IRELAND
IL	ISRAEL
IM	ISLE OF MAN
IN	INDIA

Alpha_2_Code	English_Short_Name
IO	BRITISH INDIAN OCEAN TERRITORY
IQ	IRAQ
IR	IRAN
IS	ICELAND
IT	ITALY
JE	JERSEY
JM	JAMAICA
JO	JORDAN
JP	JAPAN
KE	KENYA
KG	KYRGYZSTAN
KH	CAMBODIA
KI	KIRIBATI
KM	COMOROS
KN	SAINT KITTS AND NEVIS
KP	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
KR	KOREA, REPUBLIC OF
KW	KUWAIT
KY	CAYMAN ISLANDS
KZ	KAZAKHSTAN
LA	LAO PEOPLE'S DEMOCRATIC REPUBLIC
LB	LEBANON
LC	SAINT LUCIA
LI	LIECHTENSTEIN
LK	SRI LANKA
LR	LIBERIA
LS	LESOTHO
LT	LITHUANIA
LU	LUXEMBOURG
LV	LATVIA
LY	LIBYAN ARAB JAMAHIRIYA
MA	MOROCCO
MC	MONACO
MD	MOLDOVA, REPUBLIC OF
ME	MONTENEGRO

Appendix A: Accepted Country Codes

Alpha_2_Code	English_Short_Name	Alpha_2_Code	English_Short_Name
MF	SAINT MARTIN (FRENCH PART)	PG	PAPUA NEW GUINEA
MG	MADAGASCAR	PH	PHILIPPINES
MH	MARSHALL ISLANDS	PK	PAKISTAN
MK	MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF	PL	POLAND
ML	MALI	PM	ST. PIERRE AND MIQUELON
MM	MYANMAR	PN	PITCAIRN
MN	MONGOLIA	PR	PUERTO RICO
MO	MACAU	PS	PALESTINE, STATE OF
MP	NORTHERN MARIANA ISLANDS	PT	PORTUGAL
MQ	MARTINIQUE	PW	PALAU
MR	MAURITANIA	PY	PARAGUAY
MS	MONTSERRAT	QA	QATAR
MT	MALTA	RE	REUNION
MU	MAURITIUS	RO	ROMANIA
MV	MALDIVES	RS	SERBIA
MW	MALAWI	RU	RUSSIA
MX	MEXICO	RW	RWANDA
MY	MALAYSIA	SA	SAUDI ARABIA
MZ	MOZAMBIQUE	SB	SOLOMON ISLANDS
NA	NAMIBIA	SC	SEYCHELLES
NC	NEW CALEDONIA	SD	SUDAN
NE	NIGER	SE	SWEDEN
NF	NORFOLK ISLAND	SG	SINGAPORE
NG	NIGERIA	SH	ST. HELENA
NI	NICARAGUA	SI	SLOVENIA
NL	NETHERLANDS	SJ	SVALBARD AND JAN MAYEN ISLANDS
NO	NORWAY	SK	SLOVAKIA
NP	NEPAL	SL	SIERRA LEONE
NR	NAURU	SM	SAN MARINO
NU	NIUE	SN	SENEGAL
NZ	NEW ZEALAND	SO	SOMALIA
OM	OMAN	SR	SURINAME
PA	PANAMA	SS	SOUTH SUDAN
PE	PERU	ST	SAO TOME AND PRINCIPE
PF	FRENCH POLYNESIA	SV	EL SALVADOR
		SX	SINT MAARTEN (DUTCH PART)

Appendix A: Accepted Country Codes

Alpha_2_Code	English_Short_Name	Alpha_2_Code	English_Short_Name
SY	SYRIAN ARAB REPUBLIC	WS	SAMOA
SZ	SWAZILAND	YE	YEMEN
TC	TURKS AND CAICOS ISLANDS	YT	MAYOTTE
TD	CHAD	ZA	SOUTH AFRICA
TF	FRENCH SOUTHERN TERRITORIES	ZM	ZAMBIA
TG	TOGO	ZW	ZIMBABWE
TH	THAILAND		
TJ	TAJIKISTAN		
TK	TOKELAU		
TL	TIMOR-LESTE		
TM	TURKMENISTAN		
TN	TUNISIA		
TO	TONGA		
TP	EAST TIMOR		
TR	TURKEY		
TT	TRINIDAD AND TOBAGO		
TV	TUVALU		
TW	TAIWAN		
TZ	TANZANIA, UNITED REPUBLIC OF		
UA	UKRAINE		
UG	UGANDA		
UM	UNITED STATES MINOR OUTLYING ISLANDS		
US	UNITED STATES		
UY	URUGUAY		
UZ	UZBEKISTAN		
VA	VATICAN CITY STATE		
VC	SAINT VINCENT AND THE GRENADINES		
VE	VENEZUELA		
VG	VIRGIN ISLANDS		
VI	VIRGIN ISLANDS (U.S.)		
VN	VIET NAM		
VU	VANUATU		
WF	WALLIS AND FUTUNA ISLANDS		

Appendix B: Accepted Language Codes

English Name of Language	ISO 639-1 Code	English Name of Language	ISO 639-1 Code
Abkhazian	ab	Corsican	co
Afar	aa	Cree	cr
Afrikaans	af	Croatian	hr
Akan	ak	Czech	cs
Albanian	sq	Danish	da
Amharic	am	Divehi; Dhivehi; Maldivian	dv
Arabic	ar	Dutch; Flemish	nl
Aragonese	an	Dzongkha	dz
Armenian	hy	English	en
Assamese	as		
Avaric	av	Esperanto	eo
Avestan	ae	Estonian	et
Aymara	ay	Ewe	ee
Azerbaijani	az	Faroese	fo
Bambara	bm	Fijian	fj
Bashkir	ba	Finnish	fi
Basque	eu	Fulah	ff
Belarusian	be	Gaelic; Scottish Gaelic	gd
Bengali	bn	Galician	gl
Bihari languages	bh	Ganda	lg
Bislama	bi	Georgian	ka
Bokmål, Norwegian; Norwegian Bokmål	nb	German	de
Bosnian	bs	Greek, Modern (1453-)	el
Breton	br	Guarani	gn
Bulgarian	bg	Gujarati	gu
Burmese	my	Haitian; Haitian Creole	ht
Catalan; Valencian	ca	Hausa	ha
Central Khmer	km	Hebrew	he
Chamorro	ch	Herero	hz
Chechen	ce	Hindi	hi
Chichewa; Chewa; Nyanja	ny		
Chinese	zh	Hiri Motu	ho
Church Slavic; Old Slavonic; Church Slavonic; Old Bulgarian; Old Church Slavonic	cu	Hungarian	hu
		Icelandic	is
Chuvash	cv	Ido	io
		Igbo	ig
Cornish	kw	Indonesian	id

Appendix B: Accepted Language Codes

English Name of Language	ISO 639-1 Code
Interlingua (International Auxiliary Language Association)	ia
Interlingue; Occidental	ie
Inuktitut	iu
Inupiaq	ik
Irish	ga
Italian	it
Japanese	ja
Javanese	jv
Kalaallisut; Greenlandic	kl
Kannada	kn
Kanuri	kr
Kashmiri	ks
Kazakh	kk
Kikuyu; Gikuyu	ki
Kinyarwanda	rw
Kirghiz; Kyrgyz	ky
Komi	kv
Kongo	kg
Korean	ko
Kuanyama; Kwanyama	kj
Kurdish	ku
Lao	lo
Latin	la
Latvian	lv
Limburgan; Limburger; Limburgish	li
Lingala	ln
Lithuanian	lt
Luba-Katanga	lu
Luxembourgish; Letzeburgesch	lb
Macedonian	mk
Malagasy	mg
Malay	ms
Malayalam	ml
Maltese	mt
Manx	gv

English Name of Language	ISO 639-1 Code
Maori	mi
Marathi	mr
Marshallese	mh
Mongolian	mn
Nauru	na
Navajo; Navaho	nv
Ndebele, North; North Ndebele	nd
Ndebele, South; South Ndebele	nr
Ndonga	ng
Nepali	ne
Northern Sami	se
Norwegian	no
Norwegian Nynorsk; Nynorsk, Norwegian	nn
Occitan (post 1500)	oc
Ojibwa	oj
Oriya	or
Oromo	om
Ossetian; Ossetic	os
Pali	pi
Panjabi; Punjabi	pa
Persian	fa
Polish	pl
Portuguese	pt
Pushto; Pashto	ps
Quechua	qu
Romanian; Moldavian; Moldovan	ro
Romansh	rm
Rundi	rn
Russian	ru
Samoan	sm
Sango	sg
Sanskrit	sa
Sardinian	sc
Serbian	sr
Shona	sn
Sichuan Yi; Nuosu	ii

Appendix B: Accepted Language Codes

English Name of Language	ISO 639-1 Code
Sichuan Yi; Nuosu	ii
Sindhi	sd
Sinhala; Sinhalese	si
Slovak	sk
Slovenian	sl
Somali	so
Sotho, Southern	st

Appendix C: Net Content Unit of Measure – Based on GS1 GDD

Instructions: UOM names are listed alphabetically by name. Locate the UOM name and then enter the code in the NetContent1UnitOfMeasure, NetContent2UnitofMeasure, and/orNetContent3UnitofMeasure columns.

Name	Code	Definition
10^6 (1000000) bits (binarydigits) per second	E20	A unit of information equal to 10^6 (1000000) bits (binary digits) per second.
Ampere	AMP	Ampere
Ampere Hour	AMH	A unit of electric charge defining the amount of charge accumulated by asteady flow of one ampere for one hour.
Angstrom	A11	A unit of length equal to one hundred-millionth of a centimetre, 10–10 metre, used mainly to express wavelengths and interatomic distances.
Anti XA Unit	AXU	A unit of measure for blood potency. Units for the anti XA activity whichis a measure to the anti coagulating effect at low molecular heparins.
Assortment	AS	A unit of count defining the number of assortments (assortment: set of items grouped in a mixed collection).
Atomic MassUnits (AMU)	D43	Atomic Mass Units
Bar (unit ofpressure)	BAR	The bar is widely used in descriptions of pressure; 1 bar = 100 kilopascals 0.987 atmospheres.
Barrel US	BLL	There are varying standards for barrel for some specific commodities, including 31 gal for beer, 40 gal for whiskey or kerosene, and 42 gal for petroleum. The general standard for liquids is 31.5 gal or half a hogshead; the general standard for dry contents is 7,056 Cubic Inches.
Base box	BB	A unit of area of 112 sheets of tin mil products (tin plate, tin free steel or black plate) 14 by 20 inches, or 31,360 square inches.
Batch	5B	A unit of count defining the number of batches (batch: quantity of material produced in one operation or number of animals or persons coming at once).
Beats Per Minute	BPM	Beats Per Minute
Becquerel	BQL	The becquerel (symbol Bq) is the SI derived unit of radioactivity. One Bqis defined as the activity of a quantity of radioactive material in which one nucleus decays per second. SI uses the becquerel rather than the second for the unit of activity measure to avoid dangerous mistakes: a measurement in becquerels is proportional to activity, and thus a more dangerous source of radiation gives a higher reading. A measurement inseconds is inversely proportional.

Appendix C: Net Content Unit of Measure – Based on GS1 GDD

Name	Code	Definition
Bit per second	B10	In telecommunications and computing, bitrate (sometimes written bit rate, data rate or as a variable R or fb) is the number of bits that are conveyed or processed per unit of time. The bit rate is quantified using the bits per second (bit/s or bps) unit.
Board Foot	BFT	A specialized unit of measure for the volume of rough lumber (before drying and planing with no adjustments) or planed/surfaced lumber. It is the volume of a one-foot length of a board one foot wide and one inch thick. Some countries utilize the synonym super foot or superficial foot.
Book	D63	A unit of count defining the number of books (book: set of items bound together or written document of a material whole).
British thermalunit	BTU	The British thermal unit (BTU or Btu) is a traditional unit of energy. It is approximately the amount of energy needed to heat one pound of water one degree Fahrenheit. One Btu is equal to about 1.06 kilojoules. It is used in the power, steam generation, heating and air conditioning industries.
Bushel (UK)	BUI	A bushel is an imperial and U.S. customary unit of dry volume, equivalent in each of these systems to 4 pecks or 8 gallons. It is usedfor volumes of dry commodities (not liquids), most often in agriculture
Bushel (US)	BUA	A bushel is an imperial and U.S. customary unit of dry volume, equivalent in each of these systems to 4 pecks or 8 gallons. It is usedfor volumes of dry commodities (not liquids), most often in agriculture
Byte	AD	A unit of information equal to 8 bits.
Calorie - InternationalTable (IT)	D70	A calorie is 1/100 of the amount of energy required to warm one gram of air-free water from 0 °C to 100 °C at standard atmospheric pressure;this is about 4.190 J. Its use is archaic, having been replaced by the SI unit of energy, the joule. However, in many countries it remains in common use as a unit of food energy. In the context of nutrition, and especially food labelling, the calorie is approximately equal to 4.1868 joules (J), and energy values are normally quoted in kilojoules (kJ) and kilocalories (kcal). This code is being deprecated. Use code E14 Kilocalorie to express food calories.
Candela per Square Metre	A24	Candela per Square Metre
Card	CG	A unit of count defining the number of units of card (card: thick stiffpaper or cardboard).
Centigram	CGM	A centigram is one hundredth (1/100) of a gram
Centilitre	CLT	A centilitre is one hundredth (1/100) of a litre
Centimetre	CMT	A centimetre is equal to one hundredth of a metre.
Centimetre PerHour	H49	The number of centimetre per hour the trade item or part of the trade item moves.
Centimetre PerSecond	2M	The number of centimetre per second the trade item or part of the trade item moves.
Centisimal Hahnemannian Dilution (CH)	X_CHD	A count of attenuation steps or dilution levels representing the homeopathic potency of a substance using the Hahnemannian (CH) method of attenuation; commonly denoted as CH1, CH2, CH3, etc. Each centesimal attenuation step represents one part source material combined with 99 parts dilution medium; commonly denoted as C1, C2, C3, etc.

Appendix C: Net Content Unit of Measure – Based on GS1 GDD

Name	Code	Definition
Cold Cramp Amp	X_CCA	A measurement of the number of amps a battery can deliver at 0 ° F for 30 seconds and not drop below 7.2 volts.
Colony FormingUnits	CFU	Colony Forming Units: is a rough estimate of the number of viablebacteria or fungal cells in a sample.
Colony FormingUnits per gram(CFU/g)	X_CFG	Colony Forming Units per gram (CFU/g). See CFU for definition ofColony Forming Unit
Colony FormingUnits per Pound(CFU/lb)	X_CFP	Colony Forming Units per Pound (CFU/lb) See CFU for definition ofColony Forming Unit
Conventionalmillimetre of mercury	HN	Conventional millimetre of mercury mm Hg.
Count	1N	Count
Cubic centimetre	CMQ	A cubic centimetre is the volume of a cube of side length one centimetre (0.01 m) equal to a millilitre.
Cubic decimetre	DMQ	A cubic decimetre is the volume of a cube of side length one decimetre (0.1 m)
Cubic foot	FTQ	A cubic foot is the volume of a cube of side length one foot (0.3048 m) .
Cubic Foot PerMinute	2L	Cubic foot per minute
Cubic inch	INQ	A cubic inch is the volume of a cube of side length one inch (0.254 m).
Cubic metre	MTQ	A cubic metre is the volume of a cube of side length one metre.
Cubic Metre PerHour	MQH	Cubic Metre Per Hour
Cubic millimetre	MMQ	A cubic millimetre is the volume of a cube of side length one milliimetre (0.001 m)
Cup (US)	G21	Cup (US)
Days	DAY	A day is one three hundreds and sixty fifth (1/365) of a year
DeadweightTonnage	A43	A unit of mass defining the difference between the weight of a ship when completely empty and its weight when completely loaded, expressed as the number of tons.
Decibar	X_DBA	Decibar
Decibel	2N	A measurement for sound in air and other gases, relative to 20 micropascals (μPa) = 2×10−5 Pa, the quietest sound a human can hear. This is roughly the sound of a mosquito flying 3 metres away. Thisis often abbreviated to just "dB"; however the correct abbreviation is dB(SPL), indicating decibel for Sound Pressure Level.
Decigram	DG	A decigram is one tenth (1/10) of a gram.
Decilitre	DLT	A decilitre is one tenth (1/10) of a litre.
Decimetre	DMT	A decimetre is equal to one tenth of a metre.
Degree (Unit of Angel)	DD	A measurement of plane angle, representing 1∕360 of a full rotation; one degree is equivalent to $\pi/180$ radians.
Degree Celsius	CEL	Celsius (also historically known as centigrade) is a temperature scale,the freezing point of water is 0 degrees Celsius (°C) and the boiling point 100 °C (at standard atmospheric pressure), placing the boiling and freezing points of water exactly 100 degrees apart.
Degree Fahrenheit	FAH	The Fahrenheit temperature scale, the freezing point of water is 32 degrees Fahrenheit (°F) and the boiling point 212 °F (at standard atmospheric pressure), placing the boiling and freezing points of water exactly 180 degrees apart.

Appendix C: Net Content Unit of Measure – Based on GS1 GDD

Name	Code	Definition
Dose	E27	A unit of count defining the number of doses (dose: a definite quantity of a medicine or drug).
Dots per inch	E39	A unit of count defining the number of dots per linear inch as a measure of the resolution or sharpness of a graphic image.
Dozen	DZN	A unit of count defining the number of units in multiples of 12.
Dram (UK)	DRI	The dram (archaic spelling drachm) was historically both a coin and a weight. Currently it is both a small mass in the Apothecaries' system of weights and a small unit of volume. This unit is called more correctly fluid dram or in contraction also fluidram. The fluid dram is defined as 1⁄8 of a fluid ounce, which means it is exactly equal to 3.551 632 812 500 0 mL in the Commonwealth and Ireland. In England dram came to mean a small draught of cordial or alcohol; hence the term dram-house for the taverns where one could purchase a dram.
Dram (US)	DRA	The dram (archaic spelling drachm) was historically both a coin and a weight. Currently it is both a small mass in the Apothecaries' system of weights and a small unit of volume. This unit is called more correctly fluid dram or in contraction also fluidram. The term also refers to the fluid dram, a measure of capacity equal 1⁄8 of a fluid ounce, which means it is exactly equal to 3.696 691 195 312 5 mL in the United States.
Dry Pint (US)	PTD	The United States dry pint is equal one eighth of a US dry gallon or one half US dry quarts. It is used in the United States but is not as common as the liquid pint.
Each	EA	A unit of count defining the number of items regarded as separate units.
ELISA Units	ELU	Enzyme-linked immunosorbent assay unit, is always associated with a product and a method.
Femtolitre	Q32	Femtolitre- Femtolitre is the metric unit of volume equal to one thousand trillionth (European) or one quadrillionth (American) litre. One femtolitre is the same as one cubic micrometre (µm3), which can be represented numerically as 0.00000000000001/liter.
Femtometre	A71	Femtometre- a quadrillionth of a metre (10 to the negative 15th power)
Fluid ounce (UK)	OZI	A fluid ounce (UK) is equal to one thirtieth (1/30) of a UK pint or 28.4130625 millilitres.
Fluid ounce (US)	OZA	A fluid ounce (US) is equal to one sixteenth (1/16) of a US pint or 29.5735295625 millilitres .
Foot	FOT	The international foot is defined to be equal to 0.3048 meters.
Foot Per Hour	K14	The number of foot per hour the trade item or part of the trade item moves.
Foot Per Minute	FR	The number of foot per minute the trade item or part of the trade item moves.
Foot Per Second	FS	The number of foot per second the trade item or part of the trade item moves.

Appendix C: Net Content Unit of Measure – Based on GS1 GDD

Name	Code	Definition
French gauge	H79	The French scale (most correctly abbreviated as Fr, but also often abbreviated as FR or F) is commonly used to measure the catheter size (Circumference is in millimeters), in which 1 Fr = 0.33 mm in diameter.In the French Gauge system as it is also known, the diameter in millimeters of the catheter can be determined by dividing the French size by 3, thus an increasing French size corresponds with a larger diameter catheter. The following equations summarize the relationships:D(mm) = Fr/3 or Fr = D(mm)*3
Gallon (UK)	GLI	The imperial (UK) gallon was legally defined as 4.54609 litres.
Gallon (US liquid)Per Second	K30	Gallon (US liquid) per second
Gallon (US)	GLL	The U.S. liquid gallon is legally defined as 231 cubic inches, and is equalto exactly 3.785411784 litres or about 0.133680555 cubic feet.
Gauge	AWG	Gauge- A number referring to the outer diameter of hypodermic or suture needles. Smaller gauge numbers indicate larger outer diameters. Inner diameter depends on both gauge and wall thickness. An increasing needle-gauge size corresponds to a smaller diameter needle.This is contrary to French Gauge where an increasing gauge size corresponds to a larger external diameter.
Gigabecquerel	GBQ	A unit of activity equal to 109 becquerels.
Gigabyte	E34	A unit of information equal to 109 bytes.
Gigahertz	A86	A unit of frenquecy equal to 109 Hertz
Gigawatt hour	GWH	A gigaawatt hour is 109 kilowat hour or 3.6 terajoules.
Grain	GRN	A grain or troy grain is precisely 64.79891 milligrams. Exactly 7,000grains per avoirdupois pound.
Gram	GRM	A gram is defined as one one-thousandth of the kilogram ($1 \times 10\text{-}3$ kg).
Gram of FissileIsotope	GFI	A unit of mass defining the number of grams of a fissile isotope (fissile isotope: an isotope whose nucleus is able to be split when irradiated with low energy neutrons).
Gram Per Hour	F27	Gram Per Hour
Gram Per Litre	GL	Gram Per Litre:A unit of measurement of mass concentration that shows how many grams of a certain substance are present in one litre.
Gram per squaremetre	GM	In the metric system, the density of all types of paper, paperboard, and fabric, is expressed in terms of grams per square meter (g/m2).This quantity is commonly called grammage both in English and French (ISO 536), though many English- speaking countries still refer to the "weight". The term density here is used somewhat incorrectly, as density is mass by volume. More precisely, it is a measure of the area density, areal density, or surface density.
Grams Per CubicCentimetre	23	Grams Per Cubic Centimetre
Gross	GRO	A unit of count defining the number of units in multiples of 144 (12 x12).
Gross kilogram	E4	A unit of mass defining the total number of kilograms before deductions.
Half dozen	HD	A unit of count defining the number of units in multiplt of six (6).
Heat TransferCoefficient	D55	Heat Transfer Coefficient
Hectogram	HGM	A hectogram is one hundred (100) grams

Appendix C: Net Content Unit of Measure – Based on GS1 GDD

Name	Code	Definition
Hectolitre	HLT	A hectolitre is one hundred (100) litres.
Hertz	HTZ	A unit of frequency defined as the number of complete cycles per second; it is the basic unit of frequency in the International System of Units (SI).
Histamine Equivalent Prick	HEP	Histamine equivalent prick testing for allergen.
Horsepower	K43	Horsepower (electric) - Automotive horsepower is defined as "a unit of power equal to 550 foot-pounds per second (745.7 watts)".
Hour	HUR	An hour is a unit of measurement of time of the duration of 60 minutes, or 3600 seconds. It is 1/24 of a median Earth day.
Hundred boardfoot	BP	A unit of volume equal to one hundred board foot.
Hundred count	HC	A unit of count defining the number of units counted in multiples of 100.
Hundred pound(cwt) / hundredweight (US)	CWA	A unit of weight in the U.S. Customary System equal to 100 pounds(45.36 kilograms); also called cental.
Hundred weight(UK)	CWI	A unit of weight in the British Imperial System equal to 112 pounds(50.80 kilograms); also called quintal.
Hundredths of anInch	X_HIN	One Hundredth of an inch or 0.01. (Usage- Measurements of Papers,Films, Circuit boards and the like)
Inch of Mercury	F79	Inch of mercury conversion of 3,386 39 $\times 10^3$ kg x m^{-1} x s^{-2} OR 3386.389 pascals.
Inch of Mercury(32 ºF)	N16	Non SI-conforming unit of pressure according to the Anglo-American and Imperial system for units, whereas the value of 1 inHg meets the static pressure, which is generated by a mercury at a temperature of 32°F with a height of 1 inch.3,386 38 x 10^3 Pa OR 3386.38 pascals.
Inch of Mercury(60 ºF)	N17	Non SI-conforming unit of pressure according to the Anglo-American and Imperial system for units, whereas the value of 1 inHg meets the static pressure, which is generated by a mercury at a temperature of 60°F with a height of 1 inch.3,376 85 x 10^3 Pa OR 3376.85 pascals.
Inch Per Minute	M63	The number of inch per minute the trade item or part of the trade item moves.
Inch Per Second	IU	The number of inch per second the trade item or part of the trade item moves.
Inches	INH	An international inch is defined to be equal to 25.4 millimeters.
International Units per Kilogram (IU/kg)	X_IUK	International Units per Kilogram (IU/kg) a unit of activity or potency for vitamins, hormones, or other substances, defined individually for each substance in terms of the activity of a standard quantity or preparation.
Joule	JOU	A joule is the energy exerted by a force of one newton acting to movean object through a distance of one metre.
Kallikrein inactivator unit.	KIU	Kallikrein Inactivator Unit per Milliliter definition: An arbitrary unit of a kallikrein inactivator concentration equal to the concentration at which one milliliter of the mixture contains one unit of the kallikrein inactivator
Kelvin	KEL	Kelvin: a unit of absolute temperature equal to 1/273.16 of the absolute temperature of the triple point of water. One kelvin degree is equal to one Celsius degree.
Kilo Becquerel	2Q	kBq is 103 Bq
Kilobyte	2P	A unit of information equal to 103 (1000) bytes.
Kilocalorie (international table)	E14	A unit of energy equal to 1000 calories.

Appendix C: Net Content Unit of Measure – Based on GS1 GDD

Name	Code	Definition
Kilogram	KGM	A unit of mass equal to one thousand grams.
Kilogram drainednet weight	KDW	Kilogram drained net weight
Kilogram Force	B37	The gravitational force of a kilogram weight or a one-kilogram mass multiplied by the acceleration of standard Earth gravity, equal to 9.8 newtons.
Kilogram ofhydrogen peroxide	KHY	Kilogram of hydrogen peroxide
Kilogram of methylamine	KMA	Kilogram of methylamine
Kilogram ofnitrogen	KNI	Kilogram of nitrogen
Kilogram ofphosphorus pentoxide (phosphoric anhydride)	KPP	Kilogram of phosphorus pentoxide (phosphoric anhydride)
Kilogram of potassium hydroxide (caustic potash)	KPH	Kilogram of potassium hydroxide (caustic potash)
Kilogram of potassium oxide	KPO	Kilogram of potassium oxide
Kilogram of sodium hydroxide (caustic soda)	KSH	Kilogram of sodium hydroxide (caustic soda)
Kilogram of substance 90% dry	KSD	Kilogram of substance 90% dry
Kilogram ofUranium	KUR	A unit of mass equal to one thousand grams of uranium.
Kilogram persquare centimetre	D5	A kilogram-force per square centimeter (kgf/cm2), often just kilogram per square centimeter (kg/cm2), or kilopond per square centimeter is a unit of pressure using metric units. Its use is now deprecated; it is not a part of the International System of Units (SI), the modern metric system. The unit is similar to the English unit psi (lbf/in2).
Kilogram persquare metre	28	A unit of pressure equal to 9.80665*10-05 Bar
Kilohertz	KHZ	A unit of frenquecy equal to 1000 Hertz
Kilojoule	KJO	A kilojoule is 1000 joules
Kilolitre	K6	A kilolitre is one thousand (1000) litres.
Kilometre	KMT	A kilometre is one thousand (1000) metres
Kilometre PerHour	KMH	The number of kilometre per hour the trade item or part of the trade item moves.
Kilometre PerSecond	M62	The number of kilometre per second the trade item or part of the trade item moves.
Kilonewton	B47	1000 Newtons or amount needed to accelerate 1 kilogram of mass at the rate of 1 metre per second squared multiplied by 1000 (Used to measure force of an object where the value exceeds 1000 newtons).
Kilonewton PerSquare Metre	KNM	Kilonewton Per Square Metre
Kilopascal	KPA	Kilopascal- a thousand pascals (10 to the 3rd power)
Kilowatt	KWT	A kilowatt is one thousand (1000) watts
Kilowatt / hour	D03	A unit of accumulated energy of a thousand watts over a period of one hour.
Kilowatt hour	KWH	A kilowatt hour is a unit of energy equal to 3.6 megajoules. It is also a common commercial unit of electric energy representing the amount of energy delivered at a rate of 1,000 watts over a period of one hour.

Appendix C: Net Content Unit of Measure – Based on GS1 GDD

Name	Code	Definition
Kit	KT	A unit of count defining the number of kits (kit: tub, barrel or pail).
Knot	KNT	The number of knots the trade item or part of the trade item moves. A Knot is a unit of speed equal to one nautical mile (1.852 km) per hour, approximately 1.151 mph.
Korsakovian (K)	X_KVN	A count of attenuation steps or dilution levels representing the homeopathic potency of a substance using the Korsakovian (K) method of attenuation; commonly denoted as CK1, CK2, CK3, etc. Each centesimal attenuation step represents one part source material combined with 99 parts dilution medium; commonly denoted as C1, C2, C3, etc.
Layer	LR	A unit of count defining the number of layers.
Linear foot	LF	A unit of count defining the number of feet (12-inch) in length of a uniform width object.
Linear metre	LM	A unit of count defining the number of metres in length of a uniform width object.
Link	LK	A unit of distance equal to 0.01 chain.
Liquid pint (US)	PTL	The US liquid pint is equal one eighth of a United States liquid gallon.
Liquid quart (US)	QTL	A US liquid quart exactly equals 57.75 cubic inches, which is exactly equal to 0.946352946 litres.
Litre	LTR	A litre is defined as a special name for a cubic decimetre (1 L = 1 dm3 = 1000 cm3).
Litre / Day	LD	Litre per day.
Litre of pure alcohol	LPA	Litre of pure alcohol
Litre Per Hour	E32	Litre Per Hour
Litre per kilogram	H83	Litre per kilogram.
Lumen	LUM	Lumen is a measure of the total quantity of visible light emitted by a light source.
Lumen Seconds	B62	Lumen seconds is the SI derived unit of luminous energy. It is based on the lumen, the SI unit of luminous flux, and the second, the SI base unit of time. The lumen second is sometimes called the Talbot (symbol T).
Lumens per Square Meter	B60	Lumens per Square Meter
Lumens Per Watt	B61	The number of Lumens expressed per watt.
Lux	LUX	The International System unit of illumination, equal to one lumen per square meter.
Lux Seconds	B64	Exposure is measured in lux seconds and can be computed from exposure value (EV) and scene luminance in a specified region.
Megabecquerel	4N	Megabecquerel: 106 Bq 1 Bq is defined as the activity of a quantity of radioactive material in which one nucleus decays per second.
Megabyte	4L	A unit of information equal to 10 (1000000) bytes.
Megahertz	MHZ	A unit of frenquecy equal to 106 Hertz
Megawatt	MAW	A unit of power defining the rate of energy transferred or consumed when a current of 1000 amperes flows due to a potential of 1000 volts at unity power factor.
Megawatt hour(1000 kW.h)	MWH	A unit of energy defining the total amount of bulk energy transferred or consumed.
Metre	MTR	The metre is the basic unit of length in the International System of Units (SI).

Appendix C: Net Content Unit of Measure – Based on GS1 GDD

Name	Code	Definition
Metre Per Hour	M60	The number of meter per hour the trade item or part of the trade item moves.
Metre Per Minute	2X	Metre Per Minute
Metre Per Second	MTS	Defines the speed defined by distance in metres divided by time in seconds.
Metric Carat	CTM	Metric Carat
Microgram	MC	A microgram is one millionth of a gram (0.000001)
Microlitre	4G	A microlitre is one millionth of a litre
Micrometre	4H	A micrometre is one millionth of a metre, also termed Micron.
Micromole	FH	One millionth (10^{-6}) of a mole.
Mile (statutemile)	SMI	A statute mile of 5,280 feet (exactly 1,609.344 meters).
Mile Per Hour(statute mile)	HM	The number of mile per hour the trade item or part of the trade item moves.
Mile Per Minute	M57	The number of mile per minute the trade item or part of the trade item moves.
Mile Per Second	M58	The number of mile per second the trade item or part of the trade item moves.
Miles Per Gallon	X_MPG	Fuel usage by the number of miles the trade item can go on 1 US gallonof fuel.
Millesimai (LM)	X_MLM	A count of attenuation steps or dilution levels representing the homeopathic potency of a substance where each attenuation step represents one part source material combined with 49,999 parts dilution medium; commonly denoted as LM1, LM2, LM3, etc.
Milliampere hour	E09	Milliampere hour
Millibar	MBR	Millibar- a hundred pascals (10 to the 2nd power)
Milliequivalents	MEQ	mEq or milliequivalents, the measure is used in terms of milliequivalents of solute per liter of solvent (or milliNormal where mEq/L = mN). This is especially common for measurement of compounds in biological fluids; for instance, the healthy level of potassium in the blood of a human is defined between 3.5 and 5.0 mEq/L. To better be able to denote the units of measure for nutrients as used in business today.
Milligram	MGM	A milligram is one thousandth of a gram (0.001)
Milligram perKilogram (mg/kg)	NA	Milligram per Kilogram (mg/kg)
Millilitre	MLT	A millilitre is one thousandth of a litre (0.001)
Millimetre PerHour	H67	The number of millimetre per hour the trade item or part of the trade item moves.
Millimetre PerMinute	H81	The number of millimetre per minute the trade item or part of the trade item moves.
Millimetre PerSecond	C16	The number of millimetre per second the trade item or part of the trade item moves.
Millimole	C18	a millimole is one thousandth of a mole.
Million International Unit(NIE)	MIU	A unit of count defining the number of international units in multiples of 10^6.
Millisecond	C26	A millisecond (from milli- and second; abbreviation: ms) is a thousandth (1/1000) of a second.

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Name	Code	Definition
Minute (unit of time)	MIN	A minute is a unit of time equal to 1/60th of an hour or 60 seconds
Mole	C34	The mole (symbol mol) is the SI base unit of amount of substance; one of a few units used to measure this physical quantity.A mole will possess mass exactly equal to the substance's molecular or atomic weight in grams. That is to say, a substance's atomic or molecular massin atomic mass units is the same as its molar mass in grams. Because ofthis, one can measure the number of moles in a pure substance by weighing it and comparing the result to its molecular or atomic weight
Month	MON	Unit of time equal to 1/12 of a year of 365,25 days
Most ProbableNumber	MPN	Most Probable Number: is a method of getting quantitative data on concentrations of discrete items from positive/negative (incidence) data..
Mother tincture(Dry material)	X_MTC	A count of a dry crud medical substance Mother tincture, when used for homeopathic preparations, are liquid preparations obtained by the solvent action of a suitable vehicle upon raw materials. The raw materials (medical substance) are usually in the fresh form but may be dried. Mother tinctures for homeopathic preparations may also be obtained from plant juices, with, or without the addition of a vehicle.
Nano Seconds	C47	A nano second is an SI unit of time equal to one thousand-millionth of a second (or one billionth of a second), that is, $10-9$ seconds.
Nanogram	X_NGM	A nano gram is 10-9 gram or a billionth of a gram..
Nanolitre	Q34	Nanolitre- Nanolitre is the metric unit of volume equal to one billionth of a litre, which can be represented numerically as 0.000000001/liter.
Nanometre	C45	Nanometre- a billionth of a metre (10 to the negative 9th power)
Net kilogram	58	A unit of mass defining the total number of kilograms after deductions.
Newton	NEW	Newton
Newton Metre	NU	Newton Metre
Number of cells	NCL	Number of cells
Number of International Units	NIU	A unit of count defining the number of international units. The International Unit is a unit of measurement for the amount of a substance, based on measured biological activity or effect.The unit isused for vitamins, hormones, some medications, vaccines, blood products, and similar biologically active substances
Number of pairs	NPR	Number of pairs
Ohm	OHM	A unit for electrical impedance, the ratio of the voltage phasor to the electric current phasor.
Oscillations Per Minute	OPM	Oscillations Per Minute
Ounce	ONZ	A unit of mass with several definitions, the most commonly used of which are equal to approximately 30 grams
Ounces persquare yard	ON	The weight of one square yard of the material expressed in ounces. Commonly used to express the density or weight of all types of paper, paperboard, and fabric, e.g. 20 OZ or 20 Weight denim has an area density of 20 oz/yd2.The term density here is used somewhat incorrectly, as density is mass by volume. More precisely, it is a measure of the area density, areal density, or surface density.
Pad	PD	A unit of count defining the number of pads (pad: block of paper sheets fastened together at one end).

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Name	Code	Definition
Page - hardcopy	QB	A unit of count defining the number of hardcopy pages (hardcopy page:a page rendered as printed or written output on paper, film, or other permanent medium).
Pair	PR	A unit of count defining the number of pairs (pair: item described by two's).
Part per million	59	A unit of proportion equal to 10-6 (ppm).
Pascal	PAL	The pascal (symbol: Pa) is the SI derived unit of pressure, stress, Young's modulus and tensile strength. It is a measure of force per unitarea, defined as one newton per square metre.
Pascal Seconds	C65	Pascal second (N s / m 2) is the unit of dynamic viscosity which is also known as the absolute viscosity of the fluid. It is the fluids internal resistance to flow . e.g.: water has dynamic viscosity of 1.787 at 273K or 0 degrees Celsius. and 1.002 Pa-second at 293K i.e. 20degrees Celsius.
Peck	G23	A peck is an imperial and U.S. customary unit of dry volume, equivalentin each of these systems to 2 gallons, 8 dry quarts, or 16 dry pints.
Penny Weight	X_DWT	A pennyweight (abbreviated dwt or denarius weight) is a unit of mass that is equal to 24 grains, 1⁄20 of a troy ounce, 1⁄240 of a troy pound, and exactly 1.55517384 grams. (Usage- The pennyweight is the common weight used in the valuation and measurement of precious metals. Jewellers use the pennyweight in calculating the amount and cost of precious metals used in fabricating or casting jewellery. Similarly, dentists and dental labs still use the pennyweight as themeasure of precious metals in dental crowns and inlays.)
Percent	P1	A unit of proportion equal to 0.01.
Petabyte	E36	A unit of information equal to 10^{15} bytes. 1000 Terabytes = 1 Petabyte
pH (potential of hydrogen)	Q30	The activity of the (solvated) hydrogen ion (a logarithmic measure used to state the acidity or alkalinity of a chemical solution).
Picolitre	Q33	Picoliter is the metric unit of volume equal to a trillionth (one millionth of a millionth) of a liter, which can be represented numerically as 0.000000000001/liter. just as the prefix nano denotes a billionth part.
Picometre	C52	Picometre- a trillionth of a metre (10 to the negative 12th power)
Picowatt	C75	Picowatt is a derived metric SI (System International) measurementunit of power. The picowatt is equal to one trillionth of a watt (10- 12W).
Piece	H87	A unit of count defining the number of pieces (piece: a single item, article or exemplar).
Pint (UK)	PTI	A pint (UK) is equal to 1/8 Gallon (UK); used primarly as a measure forbeer and cider when sold by the glass.
Pixel	E37	A unit of count defining the number of pixels (pixel: picture element).
Pixel per centimetre	X_PPC	A unit of count defining the number of pixels per linear centimetre as a measurement of the resolution of devices in various contexts; typically computer displays, image scanners or digital camera image sensors.
Pixel per inch	X_PPI	A unit of count defining the number of pixels per linear inch (PPI) as a measurement of the resolution of devices in various contexts; typically computer displays, image scanners or digital camera image sensors.
Plaque Forming unit(s)	PFU	Plaque Forming unit(s)
Point	PNT	A single unit on a scale of measurement as part of an incentive program or pricing structure used as a means of making a quantitative evaluation.

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Name	Code	Definition
Portion	PTN	Portion
Potential RenalSolute Load	PRS	Potential Renal Solute Load
Pound	LBR	The international avoirdupois pound of exactly 0.45359237 kilogram.
Pound per squarefoot	FP	A non SI unit of Pressure approximately equal to 47.88025 PASCAL's.
Pound per squareinch - Absolute	80	Psia (pound-force per square inch absolute)is a unit of pressure pressure relative to a vacuum (such as that in space).At sea level, Earth's atmosphere actually exerts a pressure of 14.7 psi. Humans do not feel this pressure because internal pressure of liquid in their bodies matches the external pressure. If a pressure gauge is calibrated to readzero in space, then at sea level on Earth it would read 14.7 psi. Thus a reading of 30 psig, on Earth, on a tire gauge represents an absolute pressure of 44.7 psi (lb/in2).
Pound per squareinch - Gauge	64	Psig (pound-force per square inch gauge) is a unit of pressure relative to the surrounding atmosphere. At sea level, Earth's atmosphere actually exerts a pressure of 14.7 psi. Humans do not feel this pressure because internal pressure of liquid in their bodies matches the external pressure. If a pressure gauge is calibrated to read zero in space, then atsea level on Earth it would read 14.7 psi. Thus a reading of 30 psig, on Earth, on a tire gauge represents an absolute pressure of 44.7 psi(lb/in2).
Pound-force persquare inch	PS	The pound-force per square inch (symbol: psi or lbf/in2 or lbf/in2) is a unit of pressure or of stress based on avoirdupois units. It is the pressure resulting from a force of one pound-force applied to an area ofone square inch. Other abbreviations are used that append a modifier to"psi". However, the US National Institute of Standards and Technology recommends that, to avoid confusion, any modifiers be instead applied to the quantity being measured rather than the unit of measure[1] For example, "Pg = 100 psi" rather than "P = 100 psig".
Quart (US dry)	QTD	A US dry quart is equal to 1/32 of a US bushel, exactly 1.101220942715 litres.
Retinol ActivityEquivalents	X_RAE	A measure of vitamin A activity based on the capacity of the body to convert provitamin carotenoids containing at least one unsubstituted ionone ring to retinaldehyde. 1 microgram RAE = 1 mg retinol = 12 mg β-carotene = 24 mg other vitamin A precursor carotenoids.
Retinol Equivalent (RE)	XRE	A unit used for quantifying the vitamin A value of sources of vitamin A, including both preformed retinoids and precursor carotenoids. Examples include: . One RE is equivalent to 1 mcg of retinol, 6 mcg of Beta-carotene, or12 mcg of other pro-vitamin A carotenoids. . One RE is equivalent to 0.3 International Units of retinol or 0.1 International Units of Beta-carotene.
Revolutions Per Minute	RPM	Revolutions Per Minute
Roll	XRO	A unit of count defining the number of rolls" where "Roll" is the name of the code value in UN/ECE Recommendation 21, pluralized as appropriate.
Sample persecond	X_SPS	A unit of count defining the number of samplings takes during a period of time
Second (unit oftime)	SEC	A second is a unit of time equal to 1/60th of a minute.

Appendix C: Net Content Unit of Measure – Based on GS1 GDD

Name	Code	Definition
Serving	X_SER	A unit of count defining the number of servings being referenced. There is a validation limiting the usage of this UoM.
Set	SET	A unit of count defining the number of sets (set: a number of objects grouped together).
Sheet	XST	A unit of count defining the number of "Sheets" where "Sheet" is the name of the code value in UN/ECE Recommendation 21, pluralized as appropriate.
Shipment	SX	A unit of count defining the number of shipments (shipment: an amount of goods shipped or transported).
Sizing Factor	FJ	Sizing Factor
SQ-E	SQE	Number of allergens based on the SQ-E unit
Square centimetre	CMK	A square centimetre is an area of a square whose sides are exactly 1 centimetre in length.
Square Decimetre	DMK	An area of a square whose sides are exactly 1 decimetre in length
Square foot	FTK	A square foot is an area of a square whose sides are exactly 1 foot in length.
Square inch	INK	A square inch is an area of a square whose sides are exactly 1 inch in length.
Square metre	MTK	A square metre is an area of a square whose sides are exactly 1 metre in length.
Square Metre /Second	S4	Metre squared per second.
Square metre kelvin per watt	D19	Square metre kelvin per watt .The definition is the thermal resistance (or Rd value) of the material, which is measured by the thickness of the material layer divided by the thermal conductivity of the material. and is expressed in m^2K/W.
Square mile	MIK	A square mile is an area of a square whose sides are exactly 1 mile in length.
Square millimetre	MMK	A square millimetre is an area of a square whose sides are exactly 1 millimetre in
Square Yard	YDK	A square yard is the area of a square with sides of one yard (three feet, thirty-six inches, 0.9144 metres) in length
Standard Atmosphere	ATM	Standard Atmosphere
Stere	G26	The stere or stère is a unit of volume in the original metric system equal to one cubic metre. The stère is typically used for measuring large quantities of firewood or other cut wood,
Tablespoon	G24	Tablespoon. 1/2 fluid ounces, 3 teaspoons, 15 millilitres
Tablet	U2	A unit of count defining the number of tablets (tablet: a small flat or compressed solid object).
Teaspoon	G25	Teaspoon. 1/6 fluid ounces or 5 millilitres
Technical Atmosphere	ATT	Technical Atmosphere
Teeth Per Inch	TPI	Teeth Per Inch
Ten Thousandths of an Inch	X_UIN	One Ten Thousandths of an inch or 0.0001 often called a "tenth" in machinery. (Usage- Measurements of some machine parts, gaps in spark plugs).
Terabyte	E35	A unit of information equal to 1012 bytes.
Terahertz	D29	A unit of frenquecy equal to 1012 Hertz
Terajoule	D30	A terajoule is 1012 joules
Terawatt hour	D32	A terawatt hour is 109 * kilowatt hour or 3.6 petajoules.

Appendix C: Net Content Unit of Measure – Based on GS1 GDD

Name	Code	Definition
The milliequivalencecaustic potash per gram of product	KO	The milliequivalence caustic potash per gram of product. A unit of count defining the number of milligrams of potassium hydroxide per gram of product as a measure of the concentration of potassium hydroxide in the product.
Thirty Seconds of an Inch	X SIN	Usage when measuring using some measuring tapes. Commonly used in model making and some hobbies for scaling to full size. Also used in railway applications.
Thousand cubicmetre	R9	Thousand cubic metre
Thousand Litre	D40	References SI system of units of measure
Thousand piece	T3	Thousand piece
Ton (UK) or longton (US)	LTN	Ton (UK) = 1016 Kg or 2240 Lb.
Ton (US) or shortton (UK)	STN	Ton (US) = 2000 Lb or 907 Kg
Tonne	TNE	Metric ton = 1000 Kg
Torr	UA	Torr
Troy ounce orapothecary ounce	APZ	The troy ounce is a unit of imperial measure. In the present day it is most commonly used to gauge the weight and therefore the price of precious metals. One troy ounce equals 480 grains or 31.1035 grams.
US Gallon PerMinute	G2	US gallon per minute
Use	E55	A unit of count defining the number of times an object is used.
Volt	VLT	Volt
Watt	WTT	A watt is a derived unit of power; one watt is equivalent to 1 joule (J) of energy per second.
Watt hour	WHR	The watt-hour is a unit of energy equivalent to one watt of power expended for one hour of time; it is equal to 3.6 kilojoules. The watt- hour is rarely used to express energy in any form other than electrical.
Week	WEE	A week is a time unit equal to seven days.
Yard	YRD	A yard is It is equal to 3 feet or 36 inches or 0.9144 meter.
Yard Per Hour	M66	The number of yard per hour the trade item or part of the trade item moves.
Yard Per Minute	M65	The number of yard per minute the trade item or part of the trade item moves.
Yard Per Second	M64	The number of yard per second the trade item or part of the trade item moves.
Year	ANN	Unit of time equal to 365,25 days.

Appendix D: Accepted Industry and Supply Chain Roles

Industry
Apparel
Consumer Packaged Goods
Finance/Banking
Foodservice
Fresh Food and Upstream
General
General Merchandise
Healthcare
Retailer

Supply Chain Role
3rd Party Logistics Provider
Armored Carrier Company
Cash Processing Facility
Distributor
Exporter
Farm/Harvester
Federal Reserve Bank
Field/Container
Financial institution
Financial institution branch
Hospital Provider
Manufacturer
Operator
Packer
Processor
Provider/Dispenser
Repacker
Seller
Shipper
Solution Provider
Supplier
Undefined
Warehouse Operator
Wholesaler/Distributor

Appendix E: Organization (Party) Role Types

Organizational (Party) Role Types	Name
AGRICULTURAL_COOPERATIVE	HARVESTER
BRAND_OWNER	HEALTHCARE_PROVIDER
BREEDER	IMPORTER
BROKER_AGENT	INSURER
BUYER	INTERMEDIARY_BANK
BUYERS_AGENT_REPRESENTATIVE	INVENTORY_CONTROLLER
CARRIER	INVENTORY_REPORTING_PARTY
CASH_TRANSPORT_SERVICES	INVOICEE
CENTRAL_PAYMENT_SERVICE	ISSUER_OF_INVOICE
CHECKING_PARTY	LOGISTICS_SERVICE_PROVIDER
CLINICAL_TRIAL_SPONSOR	MANUFACTURER_OF_GOODS
CONSIGNEE	MARKETPLACE_OPERATOR
CONSIGNOR	MINCER
CONSOLIDATOR	OPERATING_DIVISION
CORPORATE_IDENTITY	OPERATOR
CUSTOMS	ORDERING_PARTY
CUSTOMS_BROKER	OWNER_OF_EQUIPMENT
CUTTER	OWNER_OF_MEANS_OF_TRANSPORT
DECLARANTS_AGENT_REPRESENTATIVE	PACKER
DELIVERY_PARTY	PHARMACY_OPERATOR
DESIGNER	PRICE_LOCATION_PARTY
DESPATCH_PARTY	PROXY
DISTRIBUTOR	PURCHASE_ORDER_RECEIVER
E_TAILER	RECALL_RECIPIENT
EMPTY_EQUIPMENT_DESPATCH_PARTY	RECALL_SPONSOR
EMPTY_EQUIPMENT_RETURN_PARTY	REGISTERED_AGENT
EQUIPMENT_OWNER	RETAILER
EXPORTER	SELLER
FACTOR	SERVICE_PROVIDER
FARM_OPERATOR	SLAUGHTERER
FATTENER	STORAGE_AND_HANDLING
FISHING_OPERATOR	SUBSTITUTE_SUPPLIER
FOODSERVICE_DISTRIBUTOR	SUPPLIER
FOODSERVICE_OPERATOR	TRADER
FREIGHT_FORWARDER	TRANSPORTATION_CARRIER
GOODS_OWNER	WAREHOUSE_KEEPER
GROWER	WHOLESALER

Appendix F: Location Role Types

Location Role Types	Location Role Types
ACCOUNTS_DEPARTMENT	EARLY_CHILDHOOD_EDUCATING_AND_CENTRE
AGED_CARE_SERVICE	EDUCATION_FACILITY
AIRCRAFT	ELECTRONICS_AREA
AIRPORT	EMERGENCY_DEPARTMENT
AIRPORT_GATE	END_CAP_AREA
AMBULANCE_SERVICE	ENTRANCE_GATE
AMUSEMENT_ENTERTAINMENT_GAMING	EXIT_GATE
AREA_HEALTH	FARM
ASSEMBLY	FEED_LOT
ATM	FIELD
BACKROOM	FIXED_READER
BANK	FOOD_BUSINESS
BERTH	FREIGHT_HUB
BIRTH_AREA	FREIGHT TERMINAL
BOAT	GARDEN_CENTRE
BOTTLING	GATE
BOX_CRUSHER	GENERAL_MDSE_AREA
CARGO_TERMINAL	GOVERNMENT_DEPARTMENT_AGENCY
CASH_CARRY	GREENHOUSE
CITY_CENTRE_SHOP	GROCERY
CLINIC	HEAD_OFFICE
COLLECTION_CENTRE	HOSPITAL
CONSOLIDATING_CENTRE	HOSPITAL_CAFETERIA
CONSTRUCTION_SITE	HOSPITAL_DEPARTMENT
CONTAINER_DECK	HOSPITAL_PHARMACY
CONTROLLED_SUBSTANCE_AREA	IMAGING_DIAGNOSTICS
CONVENIENCE_STORE	IMPREST_LOCATION
CONVEYOR_BELT	INBOUND AND OUTBOUND DOCK
CORRECTION_FACILITY	INBOUND_DOCK
CUSTOMER_PICK-UP_AREA	INLAND_FISHERY
DENTAL_HEALTH_SERVICE	INTERMODAL_TERMINAL
DISPENSER	LANE_OR_ROUTE
DISTRIBUTION_CENTRE	LAY-AWAY
DOCTOR_OFFICE	LIBRARY
DRUG_STORE	MAIN_RECEPTION
DUTY_FREE_STORE	MANUFACTURING_PLANT

Appendix F: Location Role Types

Location Role Types
MARINE_FISHERY
MARKET
MENTAL_HEALTH_SERVICE
MILKING_SITE
MOBILE_READER
NURSE_STATION
OFFICE
OPERATING_THEATRE
OUTBOUND DOCK
PACKAGING_AREA
PACKHOUSE
PALLET_WRAPPER
PATHOLOGY
PERSONAL_SERVICES
PETROL_STATION
PICKING_AREA
POINT_OF_SALE
PRIMARY_HEALTH_SERVICE
PRINTING_ROOM
PRODUCTION_AREA
PRODUCTION_LINE
PROMOTION_AREA
PUBLIC_WAREHOUSE
QUALITY_CONTROL
QUARANTINE
RAIL_STATION
READ_POINT_VERIFICATION_SPOT
REARING_AREA
RECALLED_PRODUCT_AREA
RECEIVING_AREA
RECEIVING_LOCATION
REPACKER
RESEARCH_FACILITY
RESIDENCE
RETAIL_OUTLET
RETAIL_PHARMACY

Location Role Types
RETURNABLE_ASSET_SERVICE_CENTRE
RETURNS_AREA
SALES_FLOOR
SALES_FLOOR_TRANSITION_AREA
SALES_YARD
SEAPORT
SECURITY_AREA
SELF_SERVICE
SERVICE_COUNTER
SHELF
SHIPPING_AREA
SILO
SLAUGHTER_HOUSE
SPORTS_AND_RECERATIONAL
STAGING
STATION
STOCKING_LOCATION
STORAGE_AREA
STORAGE_LOCATION
STORE
TERMINAL
TRADE_ITEM_RETURN_LOCATION
TRAIN
VENDING
VENDOR_LEASED_SPACE
VINEYARD
VISITING_ADDRESS
WARD
WAREHOUSE_AND_OR_DEPOT
WASTE_CENTER
WHARF
YARD

Appendix G: Collaborative Identification Types

Name
EU_VAT_IDENTIFICATION_NUMBER
APE
EORI
PHYTOSANITARY_NUMBER
SEC
CAGE
DoDAAC
LEI
APE_NISE
NAF
RCS
SIREN
SIRET
BFA
BIOLAND
DEMETER_BUND
DEMETER_INTERNATIONAL
ECOLAND
ECOVIN
EPA
FDA
FSA
GAA
IFOA
IFOAM
NATURLAND
QAI
SUDITIROL
USDA
DUNS
DUNS_PLUS_FOUR
EO_ID
EST_NUMBER
US_EIN
US_RSSD_ID
US_CRD
US_MIC

Name
US_UEI
US_SCAC
US_HTS
US_EPA_ID
US_FDIC
US_CID
US_NPI
US_DEA
US_FEI
IFTP
US_MFG_ID
US_FCC_FRN
US_499_Filler_ID
US_498_ID
US_RN
IATA_CODE
US_LIC
BEA_ID
ORG_FOR_INTERNAL_USE_1
ORG_FOR_INTERNAL_USE_10
ORG_FOR_INTERNAL_USE_2
ORG_FOR_INTERNAL_USE_3
ORG_FOR_INTERNAL_USE_4
ORG_FOR_INTERNAL_USE_5
ORG_FOR_INTERNAL_USE_6
ORG_FOR_INTERNAL_USE_7
ORG_FOR_INTERNAL_USE_8
ORG_FOR_INTERNAL_USE_9
FMC_ID
GIIN
US_FHFA_ID
US_MINE_ID
US_LAB_ID
KVK_NUMBER
OIN_NUMBER
CRN
TIN
DID

Appendix H: Class of Trade Attributes

attributeName	attributeValue	attributeName	attributeValue
Class of Trade 1	CC	Class of Trade 3	NH
Class of Trade 1	FDV	Class of Trade 3	NJ
Class of Trade 1	FO	Class of Trade 3	NK
Class of Trade 1	FP	Class of Trade 3	NL
Class of Trade 1	FPHS	Class of Trade 3	NM
Class of Trade 1	HC	Class of Trade 3	NN
Class of Trade 1	IOE	Class of Trade 3	NO
Class of Trade 1	JV	Class of Trade 3	NP
Class of Trade 1	LLC	Class of Trade 3	NQ
Class of Trade 1	NFP	Class of Trade 3	NR
Class of Trade 1	PE	Class of Trade 3	NS
Class of Trade 1	RO	Class of Trade 3	NT
Class of Trade 1	SOE	Class of Trade 3	NU
Class of Trade 1	ST	Class of Trade 3	NV
Class of Trade 1	WFOE	Class of Trade 3	NW
Class of Trade 2	IN	Class of Trade 3	NX
Class of Trade 2	OUT	Class of Trade 3	NY
Class of Trade 2	PH	Class of Trade 3	NZ
Class of Trade 3	AA	Class of Trade 3	P3
Class of Trade 3	AB	Class of Trade 3	PA
Class of Trade 3	AC	Class of Trade 3	PB
Class of Trade 3	AD	Class of Trade 3	PC
Class of Trade 3	AE	Class of Trade 3	PD
Class of Trade 3	AF	Class of Trade 3	PF
Class of Trade 3	AG	Class of Trade 3	PG
Class of Trade 3	AH	Class of Trade 3	PH
Class of Trade 3	AJ	Class of Trade 3	PL
Class of Trade 3	AK	Class of Trade 3	PM
Class of Trade 3	AL	Class of Trade 3	PN
Class of Trade 3	AM	Class of Trade 3	PO
Class of Trade 3	AS	Class of Trade 3	PP
Class of Trade 3	NB	Class of Trade 3	PR
Class of Trade 3	NC	Class of Trade 3	PS
Class of Trade 3	ND	Class of Trade 3	PW
Class of Trade 3	NE	Class of Trade 3	PX
Class of Trade 3	NF		
Class of Trade 3	NG		