SFTI shortlist – Codes for units of measure and package types
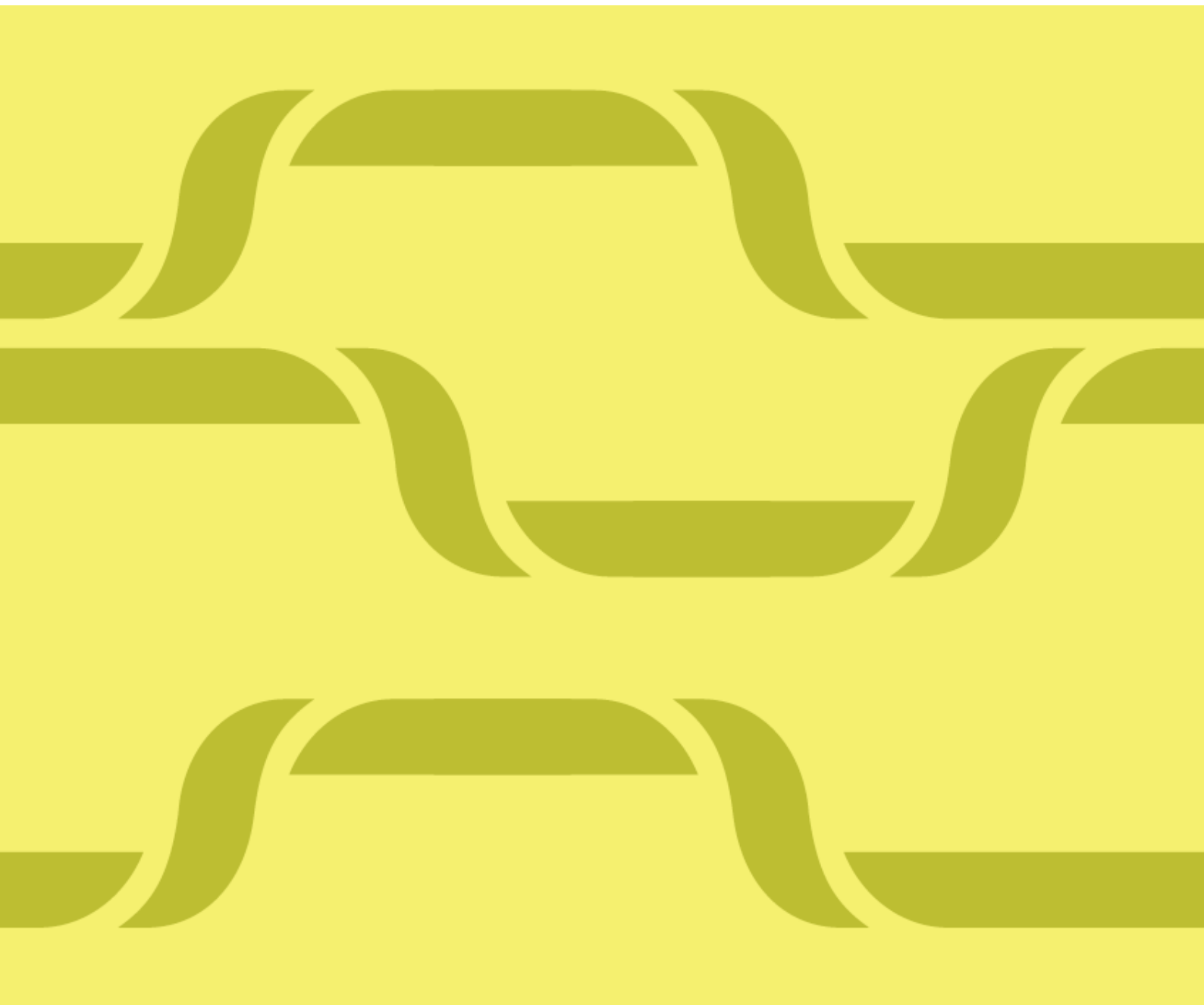
SFTI shortlist – Codes for units of measure and package types

Revision history

Version	Date	Description	By
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Contents

1   Background

OpenPEPPOL specifies, for all business documents in PEPPOL BIS version 3, the use of codes from UNECE recommendation 20 and UNECE recommendation 21 for units of measure and package types.

UNECE recommendation 21 contains codes specialised to describe package types used in trade. The primary codes for package types are alphabetic, two characters of length. The applicable version is Revision 9e-2012.

UNECE recommendation 20 comprises codes for units of measure used in a very wide range of applications. The code values, referred to as "common codes" in the recommendation, are alphanumeric and 2 or 3 characters long. The applicable version is Revision 11e.

UNECE recommendation 20 additionally has an expansion mechanism by which its set of codes can be expanded to include also the codes of recommendation 21. By prefixing the codes of recommendation 21 with capital letter "X" they can be combined with the codes of recommendation 20 into an aggregated code list. It is this aggregated code list that shall be used when describing quantities orderable, ordered, delivered or invoiced in PEPPOL BIS 3.

Note
- The PEPPOL BIS 3 specification package on https://docs.peppol.eu/poacc/upgrade-3/ includes the aggregated code list under heading "Recommendations 20, including recommendation 21 codes prefixed with X.
- PEPPOL BIS Billing 3 on https://docs.peppol.eu/poacc/billing/3.0/ includes only the respective source recommendations 20 and 21, so in this case implementers themselves have to construct the aggregated code list.

2   Scope and purpose of the shortlist

The aggregated code list (from recommendations 20 and 21) covers more than 2.100 entries and most of them have no or little relevance for the trade applications supported by PEPPOL BIS business documents. To simplify for users SFTI has compiled a list of codes – some 80 entries, all in all – representing the most commonly used units of measure and package types. The shortlist, attached below, is to support quantities ordered, delivered and invoiced, while codes for the description of article characteristics have not been prioritised.

Note – This shortlist does not imply any restriction on the use of other code values in recommendations 20 and 21; on the contrary, implementations of PEPPOL BIS 3 are expected to support the complete aggregated set, as and when relevant.

The shortlist has been developed as a service to users of e-commerce in Sweden, but it may benefit the wider PEPPOL community as well.

3 Target audience

This guide is intended mainly for implementers/developers working with business document formats in the PEPPOL BIS version 3, but it is free to use for other purposes, as relevant.

4 Specific issues

4.1 Code values need to be visualised

The code values for units of measure and package types are primarily meant for automatic processing. With a few exceptions the code was not designed for intuitive interpretation by humans, so the meaning of the code value has to be provided at time of visualisation either by the corresponding name in the appropriate language or by the symbol, if applicable.

It is believed that this shortlist may help bringing consistency when using codes values.

4.2 Use code value EA instead of C62, H87, NAR and XPP

The UNECE recommendations 20 and 21 include several options for indicating a unit/item/piece/article/package as a generic unit of count (in Sweden corresponding to "styck"), e.g. C62 (one; unit), H87 (piece), NAR (number of articles) and XPP (piece).

SFTI proposes the sole use of code value EA for this purpose. The reason is that EA, which is denoting the meaning of "each", offers the best intuitive understanding of the concept in situations where explanation of the code value is not easily available or if code values are visualised without the corresponding name or meaning.

4.3 Relation to code values in SFTI's older transaction formats

The use of business documents from the PEPPOL BIS 3 package implies some changes relative to SFTI's older specifications.

- SFTI/ESAP 6, including SFTI Fulltextfaktura, covers a limited set of units of measure. Specifically note that a default unit of measure is used in certain situations in the older specifications, and some of them also refer to code values that are not present in today's recommendations.
- Svefaktura 1.0 provides for a text string rather than rather than formal code values for units of measure and package types.

Implementers/developers are cautioned that the different principles for unit of measure and package types will affect order-to-invoice matching whenever the business documents involved are not taken from the same package of specifications (e.g. if an SFTI/ESAP 6 order is to match PEPPOL BIS Billing 3).

5   Legend

The columns in the shortlist below carry the following meaning.

Common code	Reference to the common code in UNECE recommendation 20 or the alphabetic code of UNECE recommendation 21 prefixed with capital letter X.
English name	Name as taken from the English version of ENECE recommendation 20 and 21, respectively. The name, in the applicable language version, should be used for visualisation if the code itself is not well established as acronym among the general audience.
Shortened name (en)	If the full name in English is not suitable for use when visualising business documents, a shortened name is in some cases provided.
Swedish name	Name, in Swedish, of unit of measure or package type. The name, in the applicable language version, is intended for use when visualising business documents if the code itself is not well established as acronym among the general audience.
Symbol	Representation symbol for unit of measure. Symbols are language independent and may, if appropriate, be used instead of name when business documents are visualised.
Rec	Indication of the recommendation (rec. 20 or rec. 21) being the source of the code value in question.
Dimension	Categorisation of unit of measure and package types. Categories are introduced here solely for the purpose of simplifying searches and comparison of code values.
Remark/advice	Comment or advice regarding the use of some of the code values.

6 The shortlist

Common Code	English name	Shortened English name	Swedish name	Symbol	Rec.	Dimension	Remark/advice
KMT	kilometre		kilometer	km	20	length	
MTR	metre		meter	m	20	length	
DMT	decimetre		decimeter	dm	20	length	
CMT	centimetre		centimeter	cm	20	length	
MMT	millimetre		millimeter	mm	20	length	

Common Code	English name	Shortened English name	Swedish name	Symbol	Rec.	Dimension	Remark/advice
MTK	square metre		kvadratmeter	m²	20	area	
DMK	square decimetre		kvadratdecimeter	dm²	20	area	
CMK	square centimetre		kvadratcentimeter	cm²	20	area	

Common Code	English name	Shortened English name	Swedish name	Symbol	Rec.	Dimension	Remark/advice
MTQ	cubic metre		kubikmeter	m³	20	volume	synonym (en): metre cubed
DMQ	cubic decimetre		kubikdecimeter	dm³	20	volume	use code value LTR (litre) instead of DMQ
LTR	litre		liter	l	20	volume	
DLT	decilitre		deciliter	dl	20	volume	
CLT	centilitre		centiliter	cl	20	volume	
CMQ	cubic centimetre		kubikcentimeter	cm³	20	volume	use code value MLT (millilitre) instead of CMQ
MLT	millilitre		milliliter	ml	20	volume	

Common Code	English name	Shortened English name	Swedish name	Symbol	Rec.	Dimension	Remark/advice
TNE	tonne (metric ton)	tonne	Ton	t	20	weight	synonym (en): metric ton
KGM	kilogram		kilogram	kg	20	weight	
HGM	hectogram		hektogram	hg	20	weight	
GRM	gram		gram	g	20	weight	

Common Code	English name	Shortened English name	Swedish name	Symbol	Rec.	Dimension	Remark/advice
MGM	milligram		milligram	mg	20	weight	

Common Code	English name	Shortened English name	Swedish name	Symbol	Rec.	Dimension	Remark/advice
ANN	year		år	y	20	time	synonym (en): Julian year. Equal to 365,25 days.
QAN	quarter (of a year)	quarter	kvartal		20	time	
MON	month		månad	mo	20	time	
WEE	week		vecka	wk	20	time	
DAY	day		dag	d	20	time	
HUR	hour		timma	h	20	time	
MIN	minute [unit of time]	minute	minut	min	20	time	
SEC	second [unit of time]	second	sekund	s	20	time	

Common Code	English name	Shortened English name	Swedish name	Symbol	Rec.	Dimension	Remark/advice
MWH	megawatt hour		megawattimma	MWh	20	energy	
KWH	kilowatt hour		kilowattimma	kWh	20	energy	

Common Code	English name	Shortened English name	Swedish name	Symbol	Rec.	Dimension	Remark/advice
E34	gigabyte		gigabyte	Gbyte	20	information	
4L	megabyte		megabyte	Mbyte	20	information	

Common Code	English name	Shortened English name	Swedish name	Symbol	Rec.	Dimension	Remark/advice
C62	one		styck		20	unit or piece	synonym (en): unit. Use code value EA (each) instead of C62
EA	each		styck		20	unit or piece	
H87	piece		styck		20	unit or piece	use code value EA (each) instead of H87
NAR	number of articles		styck		20	unit or piece	use code value EA (each) instead of NAR
XPP	piece		styck		21	unit or piece	use code value EA (each) instead of XPP

5B	batch		sats		20	special concept	
DZN	dozen		dussin		20	special concept	
KT	kit		kit		20	special concept	
LS	lump sum		fastpris		20	special concept	
PR	pair		par		20	special concept	
SET	set		set		20	special concept	
XNE	unpacked or unpackaged	unpackaged	oförpackad		21	special concept	

XAE	aerosol		sprayburk		21	package type	
XAM	ampoule, non-protected	ampoule	ampull		21	package type	
XAV	capsule		kapsel		21	package type	
XBA	barrel		fat		21	package type	synonym (sv): tunna
XBD	board		brätte		21	package type	
XBE	bundle		bunt		21	package type	

Common Code	English name	Shortened English name	Swedish name	Symbol	Rec.	Dimension	Remark/advice
XBG	bag		påse		21	package type	synonym (sv): bag, kasse
XBJ	bucket		hink		21	package type	
XBK	basket		korg		21	package type	
XBL	bale, compressed	bale	bal		21	package type	
XBO	bottle (non-protected, cylindrical)	bottle	flaska		21	package type	
XBX	box		låda		21	package type	synonym (sv): box
XCA	can, rectangular	can	dunk		21	package type	
XCG	cage		bur		21	package type	
XCM	card		skiva		21	package type	
XCR	crate		back		21	package type	
XCS	case		fodral		21	package type	synonym (sv): etui
XCT	carton		ask		21	package type	
XCU	cup		bägare		21	package type	synonym (sv): bytta
XCW	cage, roll	cage	rullbur		21	package type	
XCY	cylinder		cylinder		21	package type	
XEN	envelope		kuvert		21	package type	
XJG	jug		kanna		21	package type	
XJR	jar		burk		21	package type	synonym (sv): kruka, krus
XNT	net		nät		21	package type	

Common Code	English name	Shortened English name	Swedish name	Symbol	Rec.	Dimension	Remark/advice
XPB	pallet, box. Combined open-ended box and pallet	pallet box	pallbox		21	package type	for pallets of all kinds; see rec 21 for specialised codes
XPK	package		paket		21	package type	synonym: förpackning
XPU	tray		bricka		21	package type	synonym (sv): skiva
XPX	pallet		pall		21	package type	for pallets of all kinds; see rec 21 for specialised codes
XRK	rack		ställning		21	package type	synonym (sv): stativ
XRL	reel		rulle		21	package type	
XRO	roll		rullpack		21	package type	
XSA	sack		säck		21	package type	
XSK	case, skeleton	skeleton case	gallerpall		21	package type	
XST	sheet		ark		21	package type	
XSW	shrinkwrapped		krympfilm		21	package type	
XSY	sleeve		hylsa		21	package type	
XTU	tube		tub		21	package type	
XTY	tank, cylindrical	tank	tank		21	package type	synonym (sv): tryckbehållare
XVP	vacuum-packed		vacuumförpack-ning		21	package type	
XWR	Intermediate bulk con-tainer, woven plastic, coated and liner	wrap	omslag		21	package type	