EUROPEAN COMMISSION
EUROSTAT

Directorate G: Global Business Statistics
Unit G-3: Business cycle, tourism and registers

SDMX

for

SHORT-TERM BUSINESS STATISTICS (STS)

DSD: ESTAT+STSALL+2.1

Version 1.0 – 12/01/2017

Abstract: This guide provides the technical specifications for the test data transmission of Short-term business Statistics (STS) data to Eurostat, using **SDMX-ML 2.0 compact format data file**. It contains the list of statistical concepts, the Data Structure Definitions (DSD), the data flows, a cross-reference to code lists and some practical guidelines.

This version **1.0 final** of the data transmission guide is the first version prepared for the production use of the SDMX-ML files, starting from 16 January 2017.

Changes after the previous draft (based on ESTAT+STSALL+2.0): Changes of the SDMX concepts (naming) SEASONAL_ADJUST, BASE_PER, UNIT_MEASURE, code list versions and C17_C18.

The version of 16 December 2016 was amended with information on the confidentiality flag used together with EMBARGO_TIME and includes an example.

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SDMX Short-term Business Statistics
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INTRODUCTION

This document defines the specific use of SDMX for the transmission of Short-term business Statistics, using **SDMX-ML 2.0 compact format** data file.

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RELEVANT DOCUMENTS

- **WORKING PAPERS, COUNCIL AND COMMISSION REGULATIONS**

  The legal basis for the STS indicators is the Council Regulation No 1165/98 of 19 May 1998 concerning short-term statistics and subsequent amending regulations.

  A consolidated version of the STS Regulation and an overview of all other regulations can be found here.

- **SDMX, for Statistical Data and Metadata eXchange**

  There are several guides as well as general assistance available at the SDMX wiki-page: https://webgate.ec.europa.eu/fpfis/mwikis/sdmx/

INTRODUCTION TO DATA SETS AND DATA STRUCTURE DEFINITION

There are several available data sets for Short-term business Statistics reporting and these are listed in the section Data Sets. To report this information, one data structure definition (DSD) is used called 'STSALL'.

DATA SETS

The table below lists the available EDAMIS data sets. For tests, Eurostat has created specific sets starting with "V" but identical otherwise, e.g. "VSTSIND_PROD_M" for industrial production. Test data sets can be used at any time, and it is particularly recommended to use them when starting transmitting new data sets in SDMX-ML.
The production data sets ("STS…") are currently used only for GESMES/TS files but from 16 January 2017 onward, the reporting countries are encouraged to send their production files in SDMX-ML according to the Data Structure Definition ESTAT+STSALL+2.1.
Consequently, the production data sets (aiming at fulfilling the STS requirements) can be sent in both GESMES/TS and SDMX-ML from 16 January 2017 onwards, at least until the end of 2018. From 2019 onwards, only SDMX-ML format should be used for STS.

Data Set Identifier	Variables	Form	Description
(V)STSIND_PROD (_M)	110	I	Production (volume) in industry
(V)STSIND_TURN (_M)	120, 121, 122, 122z, 122x	N, I	Turnover in industry, total, domestic, non-domestic, split of non-domestic for Euro area, non-Euro area
(V)STSIND_IMPR (_M)	340, 340z, 340x	N, I	Import prices in industry (total, Euro-zone, non-Euro-zone) – required by euro-area countries only
(V)STSIND_EMPL (_M, _Q)	210, 211	N, I	Number of persons employed, Number of employees, in industry
(V)STSIND_HOUR (_M, _Q)	220	N, I	Hours worked in industry
(V)STSIND_EARN (_M, _Q)	230	N, I	Gross wages and salaries in industry
(V)STSIND_PRIC (_M)	310, 311, 312, 312z, 312x	I	Producer prices in industry (total, domestic market, non-domestic market, split non-domestic market Euro area, non Euro area) – 312z and 312x required by euro-area countries only
(V)STSCONS_PROD (_M, _Q)	110, 115, 116	I	Production (volume) in construction, total, building construction, civil engineering
(V)STSCONS_EMPL (_M, _Q)	210, 211	N, I	Number of persons employed, Number of employees, in construction
(V)STSCONS_HOUR (_M, _Q)	220	N, I	Hours worked in construction
(V)STSCONS_EARN (_M, _Q)	230	N, I	Gross wages and salaries in construction
(V)STSCONS_PRIC (_M, _Q)	310, 320, 321, 322	I	Producer prices in construction, construction costs, material costs, labour costs
(V)STSCONS_PERM (_M, _Q)	411, 412	N	Building permits, number of dwellings or square metres of useful floor area
(V)STSRTD_TURN (_M)	120, 123	N, I	Turnover in retail trade, Volume of sales in retail trade
(V)STSRTD_EMPL (_M, _Q)	210, 211	N, I	Number of persons employed, Number of employees, in retail trade
(V)STSRTD_HOUR (_M, _Q)	220	N, I	Hours worked in retail trade
(V)STSRTD_EARN (_M, _Q)	230	N, I	Gross wages and salaries in retail trade
(V)STSSERV_TURN (_M, _Q)	120, 123	N, I	Turnover in repair and services, value or deflated
(V)STSSERV_PRIC (_Q)	310	I	Services producer prices
(V)STSSERV_EMPL (_M, _Q)	210, 211	N, I	Number of persons employed, Number of employees, in repair and other services
(V)STSSERV_HOUR (_M, _Q)	220	N, I	Hours worked in services
(V)STSSERV_EARN (_M, _Q)	230	N, I	Gross wages and salaries in services
(V)STSSERV_PROD (_M)	110	I	Index of services production (not legally required before FRIBS)
STSOTHER_OTH (_M, _Q)		N, I	Any other indicator not mentioned in the list above
STSOTHER_WEIGHTS (_A)			Weight tables can be sent by EDAMIS but they are not in GESMES/TS or SDMX-ML format

The same data structure definition "ESTAT+STSALL+2.1" is applicable to all datasets, but the code lists are restricted according to the specificities of the datasets.
The available constraints can be downloaded from the Euros SDMX Registry (visualisation under "Constraints"; constrained dataflow specifications can be downloaded under "Dataflows"):
https://webgate.ec.europa.eu/sdmxregistry

STATISTICAL CONCEPTS

The following table shows the name and the description of the statistical concepts to be used for the STS transmissions.

Concept Mnemonic	Concept Name	Description	Code list
FREQ	Frequency	Frequency of the series (e.g. A, Q, M).	SDMX+CL_FREQ+2.0
REF_AREA	Reference area	Reporting Country in ISO code (The country, or geographical/political group of countries that the measured economic phenomenon relates to).	IMF+CL_AREA+1.6
SEASONAL_ADJUST	Adjustment indicator	Code defining the adjustment of data such as working day or seasonally adjusted, etc.	SDMX+CL_SEASONAL_ADJUST+1.0
INDICATOR	STS Indicator	Type of indicator, such as production, turnover, etc. This is specific to STS regulation (numeric codes are used); in GESMES transmissions, four-letter abbreviations are used (e.g. PROD<= 110, 115 and 116).	ESTAT+CL_STS_INDICATOR+1.1
ACTIVITY	Economic Activity code	NACE rev 2 & special STS aggregates & special STS aggregates & MIGs. For the Global Registry, ISIC v.4 should also be included.	ESTAT+CL_ACTIVITY_STS+1.0
BASE_PER	Base year	The period when the index value equals 100. Additionally a place holder for non-indices ("_Z" could be used to replace the current codes ABSO and "0000").	ESTAT+CL_BASE_PER+1.0
TIME_PERIOD	Time period or range	The time period of the data.	ObservationalTimePeriod
OBS_VALUE	Observation value	The value of the observation.	Float
OBS_STATUS	Status flag	Status of the observation, such as normal, estimated or provisional.	SDMX+CL_OBS_STATUS+2.0
CONF_STATUS	Observation confidentiality	Confidentiality status of the observation.	SDMX+CL_CONF_STATUS+1.1
UNIT_MULT	Unit multiplier	Value by which the observation value needs to be multiplied, as power of 10.	SDMX+CL_UNIT_MULT+1.0
UNIT_MEASURE	Unit	Units taken from national accounts – only a small subset used for STS.	IMF+CL_UNIT+1.7
DECIMALS	Decimals	Number of decimals (only relevant for the use of the DSD for dissemination).	SDMX+CL_DECIMALS+1.0
TRANSFORMATION	Transformation	Needed for dissemination of, e.g. m-o-m or y-o-y growth rates, annual aggregates etc.	ESTAT+CL_TRANSFORMATION+1.2

PRE_BREAK_VALUE	Pre-break observation value	The "would-be" observation value if the reason of the "break" did not show up.	Float
TIME_FORMAT	Time format	Time format code	SDMX+CL_TIME_FORMAT+1.0
COMMENT_DSET	Dataset comment	Comment for data set	String
COMMENT_OBS	Observation comment	Comment for observation	String
EMBARGO_TIME	Embargo date	Date and time when the observations is not anymore under embargo	Datetime
COMMENT_TS	Comment for time series	Comment for time series	String

CODE LISTS

All code lists, the *subset* of code values *that are relevant for the Short-term business statistics* are presented in APPENDIX 1.

Acceptable codes by data set can be seen in a separate MS Excel workbook (currently file "ESTAT+STSALL+2.1_matrix_v1_1-with_descriptions.xlsx") on CIRCABC.

SPECIAL CONCEPTS

There are two entirely new types of statistical concepts that were not used previously in GESMES/TS files: EMBARGO_TIME and comments (COMMENT_DSET, COMMENT_TS and COMMENT_OBS) at different levels of the data set. All these new concepts are optional.
Additionally, a field for "PRE_BREAK_VALUE" is present in the data structure, but this field should always be left empty.

EMBARGO_TIME

This concept is related to an observation and it consists of three parts: date (YYYY-MM-DD) and time (HH:MM:SS) when the embargo is lifted and the time zone expressed as difference from Coordinated Universal Time (UTC). Components of the date are separated by hyphens ("-") and those of the time stamp by colons (":"). Date and time are separated by "T".
Similarly to the practice adopted by national accounts, the time zone ([1]) part should be left empty in the STS data sets. This is then interpreted as the Luxembourgish time (UTC + 1 hour in winter and UTC + 2 hours in summer) according to the location of Eurostat. The Luxembourgish time is the same time zone as that of most EU countries (except PT, IE and UK [-1 hour] and the Baltic States, Finland and Greece [+1 hour]). Example: 2017-01-16T11:00:00
EMBARGO_TIME should be used only with confidentiality status "N": CONF_STATUS="N".

Comments

Free text can be entered at three different levels of the STS data structure:

- COMMENT_DSET is a message related to the transmitted file and the text is shown to the domain manager loading the dataset to Eurostat's STS production data base. Such comment is equivalent to EDAMIS envelope or in a separate e-mail message, and it can contain a general message on the contents of the data file.
- COMMENT_TS relates to one time series only.
- COMMENT_OBS is specific to one observation. For example, if the observation value appears as an outlier for an economic reason, this can be recorded as a comment on an observation.

[1] In XML, to specify the time zone, a date-time is in UTC time if the time stamp is followed by "Z" or an offset from the UTC time is indicated by adding a positive or negative time behind the time. For example, "2016-12-01T11:00:00+01:00".

DATA SET STRUCTURES

- Data Structure Definition Identifier: ESTAT+STSALL+2.1

A **Data Structure Definition** (DSD), also named 'Key Family', is a set of dimensions, measures and attributes that gives all information necessary to fully describe the data transmitted. The DSD used for STS purposes is described in the following tables.

The DSD in SDMX format for STS can be downloaded from the Euro Registry:
https://webgate.ec.europa.eu/sdmxregistry/

DIMENSIONS										
Position in Key	CONCEPT					REPRESENTATION				Dimension Type
	ID	Name	CONCEPT SCHEME			CODELIST			TEXT FORMAT	
			ID	VER	AGENCY	ID	VER	AGENCY		
1	FREQ	Frequency	CS_STSALL	2.1	ESTAT	CL_FREQ	2.0	SDMX		
2	REF_AREA	Reference area	CS_STSALL	2.1	ESTAT	CL_AREA	1.6	IMF		
3	SEASONAL_ADJUST	Adjustment indicator	CS_STSALL	2.1	ESTAT	CL_SEASONAL_ADJUST	1.0	SDMX		
4	INDICATOR	STS Indicator	CS_STSALL	2.1	ESTAT	CL_STS_INDICATOR	1.1	ESTAT		
5	ACTIVITY	Economic Activity code	CS_STSALL	2.1	ESTAT	CL_ACTIVITY_STS	1.0	ESTAT		
6	BASE_PER	Base year	CS_STSALL	2.1	ESTAT	CL_BASE_PER	1.0	ESTAT	TEXT	
TIME	TIME_PERIOD	Time period or range	CS_STSALL	2.1	ESTAT				TIME_PERIOD	TIME

MEASURES											
TYPE	CONCEPT					REPRESENTATION				MEASURE DIMENSION	CODE
	ID	Name	CONCEPT SCHEME			CODELIST			TEXT FORMAT		
			ID	VER	AGENCY	ID	VER	AGENCY			
Primary	OBS_VALUE	Observation value	CS_STSALL	2.1	ESTAT				FLOAT	N/A	N/A

ATTRIBUTES											
ATTACHMENT LEVEL	CONCEPT					REPRESENTATION				ATTRIBUTE TYPE	ASSIGNMENT STATUS
	ID	Name	CONCEPT SCHEME			CODELIST			TEXT FORMAT		
			ID	VER	AGENCY	ID	VER	AGENCY			
OBSERVATION	OBS_STATUS	Status flag	CS_STSALL	2.1	ESTAT	CL_OBS_STATUS	2.0	SDMX			M
OBSERVATION	CONF_STATUS	Observation confidentiality	CS_STSALL	2.1	ESTAT	CL_CONF_STATUS	1.1	SDMX			M
DIMENSION_GROUP	UNIT_MULT	Unit multiplier	CS_STSALL	2.1	ESTAT	CL_UNIT_MULT	1.0	SDMX			C
DIMENSION_GROUP	UNIT_MEASURE	Unit	CS_STSALL	2.1	ESTAT	CL_UNIT	1.7	IMF			C
DIMENSION_GROUP	DECIMALS	Decimals	CS_STSALL	2.1	ESTAT	CL_DECIMALS	1.0	SDMX			C
DIMENSION_GROUP	TRANSFORMATION	Transformation	CS_STSALL	2.1	ESTAT	CL_TRANSFORMATION	1.2	ESTAT			C
OBSERVATION	PRE_BREAK_VALUE	Pre-break observation value	CS_STSALL	2.1	ESTAT				FLOAT		C
DIMENSION_GROUP	TIME_FORMAT	Time format	CS_STSALL	2.1	ESTAT	CL_TIME_FORMAT	1.0	SDMX			C
DATA_SET	COMMENT_DSET	Dataset comment	CS_STSALL	2.1	ESTAT				STRING		C
OBSERVATION	COMMENT_OBS	Observation comment	CS_STSALL	2.1	ESTAT				STRING		C
OBSERVATION	EMBARGO_TIME	Embargo date	CS_STSALL	2.1	ESTAT				DATE_TIME		C
DIMENSION_GROUP	COMMENT_TS	Comment for time series	CS_STSALL	2.1	ESTAT				STRING		C

EXAMPLES

An example of SDMX message for the data flows can be found in Appendix 2, including explanations on its structure.

A full SDMX User Guide is referred to in the section “Relevant Documents” (page 3).

APPENDIX 1 – CODE LISTS

CL_FREQ

CL_FREQ	
AGENCY:	SDMX
VERSION:	2.0, subset of codes used in STS data sets
CODE	**DESCRIPTION**
Q	Quarterly
M	Monthly

CL_AREA

CL_AREA	
AGENCY:	IMF
VERSION:	1.6, subset of codes used in STS data sets
CODE	**DESCRIPTION**
AL	Albania
AT	Austria
BA	Bosnia and Herzegovina
BE	Belgium
BG	Bulgaria
CH	Switzerland
CY	Cyprus
CZ	Czech Republic
DE	Germany
DK	Denmark
EE	Estonia
ES	Spain
FI	Finland
FR	France
GB	United Kingdom
GR	Greece
HR	Croatia
HU	Hungary
IE	Ireland
IS	Iceland
IT	Italy
LI	Liechtenstein
LT	Lithuania
LU	Luxembourg

LV	Latvia
ME	Montenegro
MK	Macedonia, The Former Yugoslav Republic of
MT	Malta
NL	Netherlands
NO	Norway
PL	Poland
PT	Portugal
RO	Romania
RS	Serbia
SE	Sweden
SI	Slovenia
SK	Slovakia
TR	Turkey
XK	Kosovo

CL_SEASONAL_ADJUST

CL_SEASONAL_ADJUST	
AGENCY:	SDMX
VERSION:	1.0, subset of codes used in STS data sets
CODE	**DESCRIPTION**
N	Neither seasonally adjusted nor calendar adjusted data
S	Seasonally adjusted data, not calendar adjusted
W	Calendar adjusted data, not seasonally adjusted
Y	Calendar and seasonally adjusted data

CL_STS_INDICATOR

CL_STS_INDICATOR	
AGENCY:	ESTAT
VERSION:	1.1, subset of codes used in STS data sets
CODE	**DESCRIPTION**
CSTO	Construction producer prices (variable 310)
CSTI	Construction costs (variable 320)
CSTL	Construction labour costs (variable (322)
CSTM	Construction material costs (variable 321)
EMPL	Number of persons employed (variable 210)(can be approximated by number of employees, variable 211)
HOWK	Hours worked (variable 220)
IMPR	Import prices (variable 340)
IMPX	Import prices (non-Euro-zone) (variable 340x)

IMPZ	Import prices (Euro-zone) (variable 340z)
PNUM	Building permits, number of dwellings (variable 411)
PRBB	Output prices for services (Business to Business) (variable 310)
PREN	Output prices, non-domestic market (variable 312) (can be approximated by unit value index , variable 313)
PREX	Output prices, non-domestic market (non-Euro-zone) (variable 312x)
PREZ	Output prices, non-domestic market (Euro-zone) (variable 312z)
PRIN	Output prices, domestic market (variable 311)
PROD	Production (variables 110, 115, 116)
PRON	Output prices for industry (total) (variable 310)
PSQM	Building permits square metres of useful floor area (variable 412)
TOVD	Turnover, domestic market (non-deflated) (variable 121)
TOVE	Turnover, non-domestic market (non-deflated) (variable 122)
TOVT	Turnover (total turnover, non-deflated) (variable 120)
TOVV	Turnover deflated (volume of sales) (variable 123)
TOVX	Turnover, non-domestic market (non-deflated) (non-Euro-zone) (variable 122x)
TOVZ	Turnover, non-domestic market (non-deflated) (Euro-zone) (variable 122z)
WAGE	Gross wages and salaries (variable 230)

CL_ACTIVITY_STS

CL_ACTIVITY_STS	
AGENCY:	ESTAT
VERSION:	1.0, subset of codes used in STS data sets
CODE	**DESCRIPTION**
BTF	Industry and construction
BTE36_F	Industry and construction (except sewerage, waste management and remediation activities)
BTE36	Industry (except construction, sewerage, waste management and remediation activities)
BTE36_XFOOD	Industry (except construction, sewerage, waste management and remediation activities), except food, beverages and tobacco
BTFXE	Mining and quarrying; manufacturing; electricity, gas, steam and air conditioning supply; construction
BTD	Mining and quarrying; manufacturing; electricity, gas, steam and air conditioning supply
BTD_XFOOD	Mining and quarrying; manufacturing; electricity, gas, steam and air conditioning supply (except food, beverages and tobacco)
B_C	Mining and quarrying; manufacturing
B_C_XFOOD	Mining and quarrying; manufacturing (except food, beverages and tobacco)
B_C_XMIG_NRG	Mining and quarrying; manufacturing (except MIG energy)
B_C_XFDMIG_NRG	Mining and quarrying; manufacturing (except MIG energy), except food, beverages and tobacco
MIG_ING_CAG	MIG - Intermediate and capital goods

MIG_ING	MIG - Intermediate goods
MIG_NRG	MIG - Energy
MIG_NRG_XE	MIG - Energy (except Section E)
MIG_NRG_XD_E	MIG - Energy (except D and E)
MIG_CAG	MIG - Capital goods
MIG_COG	MIG - Consumer goods
MIG_COG_XFOOD	MIG - Consumer goods (except food, beverages and tobacco)
MIG_DCOG	MIG - Durable consumer goods
MIG_NDCOG	MIG - Non-durable consumer goods
B	Mining and quarrying
B05	Mining of coal and lignite
B051	Mining of hard coal
B052	Mining of lignite
B06	Extraction of crude petroleum and natural gas
B061	Extraction of crude petroleum
B062	Extraction of natural gas
B07	Mining of metal ores
B071	Mining of iron ores
B072	Mining of non-ferrous metal ores
B0729	Mining of other non-ferrous metal ores
B08	Other mining and quarrying
B081	Quarrying of stone, sand and clay
B0811	Quarrying of ornamental and building stone, limestone, gypsum, chalk and slate
B0812	Operation of gravel and sand pits; mining of clays and kaolin
B089	Mining and quarrying n.e.c.
B0891	Mining of chemical and fertiliser minerals
B0892	Extraction of peat
B0893	Extraction of salt
B0899	Other mining and quarrying n.e.c.
B09	Mining support service activities
C	Manufacturing
C10TC12	Manufacture of food products; beverages and tobacco products
C10_C11	Manufacture of food products and beverages
C10	Manufacture of food products
C101	Processing and preserving of meat and production of meat products
C1011	Processing and preserving of meat
C1012	Processing and preserving of poultry meat
C1013	Production of meat and poultry meat products
C102	Processing and preserving of fish, crustaceans and molluscs
C103	Processing and preserving of fruit and vegetables

C1031	Processing and preserving of potatoes
C1032	Manufacture of fruit and vegetable juice
C1039	Other processing and preserving of fruit and vegetables
C104	Manufacture of vegetable and animal oils and fats
C1041	Manufacture of oils and fats
C1042	Manufacture of margarine and similar edible fats
C105	Manufacture of dairy products
C1051	Operation of dairies and cheese making
C1052	Manufacture of ice cream
C106	Manufacture of grain mill products, starches and starch products
C1061	Manufacture of grain mill products
C1062	Manufacture of starches and starch products
C107	Manufacture of bakery and farinaceous products
C1071	Manufacture of bread; manufacture of fresh pastry goods and cakes
C1072	Manufacture of rusks and biscuits; manufacture of preserved pastry goods and cakes
C1073	Manufacture of macaroni, noodles, couscous and similar farinaceous products
C108	Manufacture of other food products
C1081	Manufacture of sugar
C1082	Manufacture of cocoa, chocolate and sugar confectionery
C1083	Processing of tea and coffee
C1084	Manufacture of condiments and seasonings
C1085	Manufacture of prepared meals and dishes
C1086	Manufacture of homogenised food preparations and dietetic food
C1089	Manufacture of other food products n.e.c.
C109	Manufacture of prepared animal feeds
C1091	Manufacture of prepared feeds for farm animals
C1092	Manufacture of prepared pet foods
C11	Manufacture of beverages
C110	Manufacture of beverages
C1101	Distilling, rectifying and blending of spirits
C1102	Manufacture of wine from grape
C1103	Manufacture of cider and other fruit wines
C1104	Manufacture of other non-distilled fermented beverages
C1105	Manufacture of beer
C1106	Manufacture of malt
C1107	Manufacture of soft drinks; production of mineral waters and other bottled waters
C12	Manufacture of tobacco products
C13TC15	Manufacture of textiles, wearing apparel, leather and related products
C13_C14	Manufacture of textiles and wearing apparel
C13	Manufacture of textiles

C131	Preparation and spinning of textile fibres
C132	Weaving of textiles
C133	Finishing of textiles
C139	Manufacture of other textiles
C1391	Manufacture of knitted and crocheted fabrics
C1392	Manufacture of made-up textile articles, except apparel
C1393	Manufacture of carpets and rugs
C1394	Manufacture of cordage, rope, twine and netting
C1395	Manufacture of non-wovens and articles made from non-wovens, except apparel
C1396	Manufacture of other technical and industrial textiles
C1399	Manufacture of other textiles n.e.c.
C14	Manufacture of wearing apparel
C141	Manufacture of wearing apparel, except fur apparel
C1411	Manufacture of leather clothes
C1412	Manufacture of workwear
C1413	Manufacture of other outerwear
C1414	Manufacture of underwear
C1419	Manufacture of other wearing apparel and accessories
C142	Manufacture of articles of fur
C143	Manufacture of knitted and crocheted apparel
C1431	Manufacture of knitted and crocheted hosiery
C1439	Manufacture of other knitted and crocheted apparel
C15	Manufacture of leather and related products
C151	Tanning and dressing of leather; manufacture of luggage, handbags, saddlery and harness; dressing and dyeing of fur
C1511	Tanning and dressing of leather; dressing and dyeing of fur
C1512	Manufacture of luggage, handbags and the like, saddlery and harness
C152	Manufacture of footwear
C16TC18	Manufacture of wood, paper, printing and reproduction
C16	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials
C161	Sawmilling and planing of wood
C162	Manufacture of products of wood, cork, straw and plaiting materials
C1621	Manufacture of veneer sheets and wood-based panels
C1622	Manufacture of assembled parquet floors
C1623	Manufacture of other builders' carpentry and joinery
C1624	Manufacture of wooden containers
C1629	Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials
C17_C18	Manufacture of paper and paper products; printing and reproduction of recorded media
C17	Manufacture of paper and paper products

C171	Manufacture of pulp, paper and paperboard
C1711	Manufacture of pulp
C1712	Manufacture of paper and paperboard
C172	Manufacture of articles of paper and paperboard
C1721	Manufacture of corrugated paper and paperboard and of containers of paper and paperboard
C1722	Manufacture of household and sanitary goods and of toilet requisites
C1723	Manufacture of paper stationery
C1724	Manufacture of wallpaper
C1729	Manufacture of other articles of paper and paperboard
C18	Printing and reproduction of recorded media
C181	Printing and service activities related to printing
C1811	Printing of newspapers
C1812	Other printing
C1813	Pre-press and pre-media services
C1814	Binding and related services
C182	Reproduction of recorded media
C19	Manufacture of coke and refined petroleum products
C191	Manufacture of coke oven products
C192	Manufacture of refined petroleum products
C20_C21	Manufacture of chemicals and chemical products; basic pharmaceutical products and pharmaceutical preparations
C20	Manufacture of chemicals and chemical products
C201	Manufacture of basic chemicals, fertilisers and nitrogen compounds, plastics and synthetic rubber in primary forms
C2011	Manufacture of industrial gases
C2012	Manufacture of dyes and pigments
C2013	Manufacture of other inorganic basic chemicals
C2014	Manufacture of other organic basic chemicals
C2015	Manufacture of fertilisers and nitrogen compounds
C2016	Manufacture of plastics in primary forms
C2017	Manufacture of synthetic rubber in primary forms
C202	Manufacture of pesticides and other agrochemical products
C203	Manufacture of paints, varnishes and similar coatings, printing ink and mastics
C204	Manufacture of soap and detergents, cleaning and polishing preparations, perfumes and toilet preparations
C2041	Manufacture of soap and detergents, cleaning and polishing preparations
C2042	Manufacture of perfumes and toilet preparations
C205	Manufacture of other chemical products
C2051	Manufacture of explosives
C2052	Manufacture of glues
C2053	Manufacture of essential oils

C2059	Manufacture of other chemical products n.e.c.
C206	Manufacture of man-made fibres
C21	Manufacture of basic pharmaceutical products and pharmaceutical preparations
C211	Manufacture of basic pharmaceutical products
C212	Manufacture of pharmaceutical preparations
C22_C23	Manufacture of rubber and plastic products and other non-metallic mineral products
C22	Manufacture of rubber and plastic products
C221	Manufacture of rubber products
C2211	Manufacture of rubber tyres and tubes; retreading and rebuilding of rubber tyres
C2219	Manufacture of other rubber products
C222	Manufacture of plastic products
C2221	Manufacture of plastic plates, sheets, tubes and profiles
C2222	Manufacture of plastic packing goods
C2223	Manufacture of builders' ware of plastic
C2229	Manufacture of other plastic products
C23	Manufacture of other non-metallic mineral products
C231	Manufacture of glass and glass products
C2311	Manufacture of flat glass
C2312	Shaping and processing of flat glass
C2313	Manufacture of hollow glass
C2314	Manufacture of glass fibres
C2319	Manufacture and processing of other glass, including technical glassware
C232	Manufacture of refractory products
C233	Manufacture of clay building materials
C2331	Manufacture of ceramic tiles and flags
C2332	Manufacture of bricks, tiles and construction products, in baked clay
C234	Manufacture of other porcelain and ceramic products
C2341	Manufacture of ceramic household and ornamental articles
C2342	Manufacture of ceramic sanitary fixtures
C2343	Manufacture of ceramic insulators and insulating fittings
C2344	Manufacture of other technical ceramic products
C2349	Manufacture of other ceramic products
C235	Manufacture of cement, lime and plaster
C2351	Manufacture of cement
C2352	Manufacture of lime and plaster
C236	Manufacture of articles of concrete, cement and plaster
C2361	Manufacture of concrete products for construction purposes
C2362	Manufacture of plaster products for construction purposes
C2363	Manufacture of ready-mixed concrete
C2364	Manufacture of mortars

C2365	Manufacture of fibre cement
C2369	Manufacture of other articles of concrete, plaster and cement
C237	Cutting, shaping and finishing of stone
C239	Manufacture of abrasive products and non-metallic mineral products n.e.c.
C2391	Production of abrasive products
C2399	Manufacture of other non-metallic mineral products n.e.c.
C24_C25	Manufacture of basic metals and fabricated metal products, except machinery and equipment
C24	Manufacture of basic metals
C241	Manufacture of basic iron and steel and of ferro-alloys
C242	Manufacture of tubes, pipes, hollow profiles and related fittings, of steel
C243	Manufacture of other products of first processing of steel
C2431	Cold drawing of bars
C2432	Cold rolling of narrow strip
C2433	Cold forming or folding
C2434	Cold drawing of wire
C244	Manufacture of basic precious and other non-ferrous metals
C2441	Precious metals production
C2442	Aluminium production
C2443	Lead, zinc and tin production
C2444	Copper production
C2445	Other non-ferrous metal production
C2446	Processing of nuclear fuel
C245	Casting of metals
C2451	Casting of iron
C2452	Casting of steel
C2453	Casting of light metals
C2454	Manufacture of metal products and other equipment
C25	Manufacture of fabricated metal products, except machinery and equipment
C251	Manufacture of structural metal products
C2511	Manufacture of metal structures and parts of structures
C2512	Manufacture of doors and windows of metal
C252	Manufacture of tanks, reservoirs and containers of metal
C2521	Manufacture of central heating radiators and boilers
C2529	Manufacture of other tanks, reservoirs and containers of metal
C253	Manufacture of steam generators, except central heating hot water boilers
C254	Manufacture of weapons and ammunition
C255	Forging, pressing, stamping and roll-forming of metal; powder metallurgy
C256	Treatment and coating of metals; machining
C2561	Treatment and coating of metals
C2562	Machining

C257	Manufacture of cutlery, tools and general hardware
C2571	Manufacture of cutlery
C2572	Manufacture of locks and hinges
C2573	Manufacture of tools
C259	Manufacture of other fabricated metal products
C2591	Manufacture of steel drums and similar containers
C2592	Manufacture of light metal packaging
C2593	Manufacture of wire products, chain and springs
C2594	Manufacture of fasteners and screw machine products
C2599	Manufacture of other fabricated metal products n.e.c.
C26_C27	Manufacture of computer, electronic and optical products; manufacture of electrical equipment
C26	Manufacture of computer, electronic and optical products
C261	Manufacture of electronic components and boards
C2611	Manufacture of electronic components
C2612	Manufacture of loaded electronic boards
C262	Manufacture of computers and peripheral equipment
C263	Manufacture of communication equipment
C264	Manufacture of consumer electronics
C265	Manufacture of instruments and appliances for measuring, testing and navigation; watches and clocks
C2651	Manufacture of instruments and appliances for measuring, testing and navigation
C2652	Manufacture of watches and clocks
C266	Manufacture of irradiation, electromedical and electrotherapeutic equipment
C267	Manufacture of optical instruments and photographic equipment
C268	Manufacture of magnetic and optical media
C27	Manufacture of electrical equipment
C271	Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus
C2711	Manufacture of electric motors, generators and transformers
C2712	Manufacture of electricity distribution and control apparatus
C272	Manufacture of batteries and accumulators
C273	Manufacture of wiring and wiring devices
C2731	Manufacture of fibre optic cables
C2732	Manufacture of other electronic and electric wires and cables
C2733	Manufacture of wiring devices
C274	Manufacture of electric lighting equipment
C275	Manufacture of domestic appliances
C2751	Manufacture of electric domestic appliances
C2752	Manufacture of non-electric domestic appliances
C279	Manufacture of other electrical equipment

C28	Manufacture of machinery and equipment n.e.c.
C281	Manufacture of general-purpose machinery
C2811	Manufacture of engines and turbines, except aircraft, vehicle and cycle engines
C2812	Manufacture of fluid power equipment
C2813	Manufacture of other pumps and compressors
C2814	Manufacture of other taps and valves
C2815	Manufacture of bearings, gears, gearing and driving elements
C282	Manufacture of other general-purpose machinery
C2821	Manufacture of ovens, furnaces and furnace burners
C2822	Manufacture of lifting and handling equipment
C2823	Manufacture of office machinery and equipment (except computers and peripheral equipment)
C2824	Manufacture of power-driven hand tools
C2825	Manufacture of non-domestic cooling and ventilation equipment
C2829	Manufacture of other general-purpose machinery n.e.c.
C283	Manufacture of agricultural and forestry machinery
C284	Manufacture of metal forming machinery and machine tools
C2841	Manufacture of metal forming machinery
C2849	Manufacture of other machine tools
C289	Manufacture of other special-purpose machinery
C2891	Manufacture of machinery for metallurgy
C2892	Manufacture of machinery for mining, quarrying and construction
C2893	Manufacture of machinery for food, beverage and tobacco processing
C2894	Manufacture of machinery for textile, apparel and leather production
C2895	Manufacture of machinery for paper and paperboard production
C2896	Manufacture of plastics and rubber machinery
C2899	Manufacture of other special-purpose machinery n.e.c.
C29_C30	Manufacture of motor vehicles, trailers, semi-trailers and of other transport equipment
C29	Manufacture of motor vehicles, trailers and semi-trailers
C291	Manufacture of motor vehicles
C292	Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers
C293	Manufacture of parts and accessories for motor vehicles
C2931	Manufacture of electrical and electronic equipment for motor vehicles
C2932	Manufacture of other parts and accessories for motor vehicles
C30	Manufacture of other transport equipment
C301	Building of ships and boats
C3011	Building of ships and floating structures
C3012	Building of pleasure and sporting boats
C302	Manufacture of railway locomotives and rolling stock

C303	Manufacture of air and spacecraft and related machinery
C304	Manufacture of military fighting vehicles
C309	Manufacture of transport equipment n.e.c.
C3091	Manufacture of motorcycles
C3092	Manufacture of bicycles and invalid carriages
C3099	Manufacture of other transport equipment n.e.c.
C31TC33	Manufacture of furniture; jewellery, musical instruments, toys; repair and installation of machinery and equipment
C31_C32	Manufacture of furniture; other manufacturing
C31	Manufacture of furniture
C310	Manufacture of furniture
C3101	Manufacture of office and shop furniture
C3102	Manufacture of kitchen furniture
C3103	Manufacture of mattresses
C3109	Manufacture of other furniture
C32	Other manufacturing
C321	Manufacture of jewellery, bijouterie and related articles
C3211	Striking of coins
C3212	Manufacture of jewellery and related articles
C3213	Manufacture of imitation jewellery and related articles
C322	Manufacture of musical instruments
C323	Manufacture of sports goods
C324	Manufacture of games and toys
C325	Manufacture of medical and dental instruments and supplies
C329	Manufacturing n.e.c.
C3291	Manufacture of brooms and brushes
C3299	Other manufacturing n.e.c.
C33	Repair and installation of machinery and equipment
C331	Repair of fabricated metal products, machinery and equipment
C3311	Repair of fabricated metal products
C3312	Repair of machinery
C3313	Repair of electronic and optical equipment
C3314	Repair of electrical equipment
C3315	Repair and maintenance of ships and boats
C3316	Repair and maintenance of aircraft and spacecraft
C3317	Repair and maintenance of other transport equipment
C3319	Repair of other equipment
C332	Installation of industrial machinery and equipment
D	Electricity, gas, steam and air conditioning supply
D35_E36	Electricity, gas, steam and air conditioning supply; water collection, treatment and supply

D35	Electricity, gas, steam and air conditioning supply
D351	Electric power generation, transmission and distribution
D3511	Production of electricity
D3512	Transmission of electricity
D3513	Distribution of electricity
D3514	Trade of electricity
D352	Manufacture of gas; distribution of gaseous fuels through mains
D3521	Manufacture of gas
D3522	Distribution of gaseous fuels through mains
D3523	Trade of gas through mains
D353	Steam and air conditioning supply
E	Water supply; sewerage, waste management and remediation activities
E36	Water collection, treatment and supply
E37	Sewerage
E38	Waste collection, treatment and disposal activities; materials recovery
E383	Materials recovery
E39	Remediation activities and other waste management services
F	Construction
F_CC1	Buildings
F_CC11	Residential buildings
F_CC11XCC113	Residential buildings, except residences for communities
F_CC111	One-dwelling buildings
F_CC112	Two- and more dwelling buildings
F_CC113	Residences for communities
F_CC12	Non-residential buildings
F_CC12XCC122	Non-residential buildings, except office buildings
F_CC122	Office buildings
F_CC2	Civil engineering works
GTN_STS	Services required by STS regulation
GTNXG47	Services required by STS regulation (except retail trade and repair)
G	Wholesale and retail trade; repair of motor vehicles and motorcycles
G45	Wholesale and retail trade and repair of motor vehicles and motorcycles
G45XG452	Sale of motor vehicles; sale and repair of motorcycles
G451	Sale of motor vehicles
G452	Maintenance and repair of motor vehicles
G453	Sale of motor vehicle parts and accessories
G454	Sale, maintenance and repair of motorcycles and related parts and accessories
G46	Wholesale trade, except of motor vehicles and motorcycles
G461	Wholesale on a fee or contract basis
G462	Wholesale of agricultural raw materials and live animals

G463	Wholesale of food, beverages and tobacco
G464	Wholesale of household goods
G465	Wholesale of information and communication equipment
G466	Wholesale of other machinery, equipment and supplies
G467	Other specialised wholesale
G469	Non-specialised wholesale trade
G47	Retail trade, except of motor vehicles and motorcycles
G47XG473	Retail trade, except of motor vehicles, motorcyles and fuel
G47_FOOD	Retail sale of food, beverages and tobacco
G47_NFOOD	Retail sale of non-food products (including fuel)
G47_NFOOD_XG473	Retail sale of non-food products (except fuel)
G47_NF_CLTH	Retail sale of textiles, clothing, footware and leather goods in specialised stores
G47_NF_HLTH	Dispensing chemist; retail sale of medical and orthopaedic goods, cosmetic and toilet articles in specialised stores
G47_NF_OT	Retail sale of information and communication equipment; other household equipment (except textiles); cultural and recreation goods, etc. in specialised stores
G47_NF_OT1	Retail sale of computers, peripheral units and software; telecommunications equipment, etc. in specialised stores
G47_NF_OT2	Retail sale of audio and video equipment; hardware, paints and glass; electrical household appliances, etc. in specialised stores
G471	Retail sale in non-specialised stores
G4711	Retail sale in non-specialised stores with food, beverages or tobacco predominating
G4719	Other retail sale in non-specialised stores
G472	Retail sale of food, beverages and tobacco in specialised stores
G473	Retail sale of automotive fuel in specialised stores
G474	Retail sale of information and communication equipment in specialised stores
G475	Retail sale of other household equipment in specialised stores
G476	Retail sale of cultural and recreation goods in specialised stores
G477	Retail sale of other goods in specialised stores
G478	Retail sale via stalls and markets
G479	Retail trade not in stores, stalls or markets
G4791	Retail sale via mail order houses or via Internet
HTN_STS	Services required by STS regulation (except section G)
H	Transportation and storage
H49	Land transport and transport via pipelines
H491	Passenger rail transport, interurban
H493	Other passenger land transport
H4932	Taxi operation
H494TN812	Services required by STS regulation (for the service producer prices indicator)
H494	Freight transport by road and removal services
H50	Water transport
H501_H502	Sea and coastal water transport

H501	Sea and coastal passenger water transport
H502	Sea and coastal freight water transport
H503_H504	Inland passenger and freight water transport
H51_I55_N79	Air transport; accommodation; travel agency, tour operator reservation service and related activities
H51	Air transport
H511	Passenger air transport
H512	Freight air transport and space transport
H52	Warehousing and support activities for transportation
H521	Warehousing and storage
H5224	Cargo handling
H53	Postal and courier activities
H531	Postal activities under universal service obligation
H532	Other postal and courier activities
I	Accommodation and food service activities
I55	Accommodation
I551	Hotels and similar accommodation
I56	Food and beverage service activities
J	Information and communication
J58TJ60	Publishing, motion picture, video, television programme production; sound recording, programming and broadcasting activities
J58	Publishing activities
J59	Motion picture, video and television programme production, sound recording and music publishing activities
J60	Programming and broadcasting activities
J61	Telecommunications
J611	Wired telecommunications activities
J612	Wireless telecommunications activities
J62_J63	Computer programming, consultancy, and information service activities
J62	Computer programming, consultancy and related activities
J63	Information service activities
J631	Data processing, hosting and related activities; web portals
J639	Other information service activities
L	Real estate activities
L68	Real estate activities
M	Professional, scientific and technical activities
M_STS	Professional, scientific and technical activities required by STS Regulation
M69TM71	Legal and accounting activities; activities of head offices; management consultancy activities; architectural and engineering activities; technical testing and analysis
M69_M702	Legal, accounting and management consultancy activities
M69	Legal and accounting activities

M691	Legal activities
M692	Accounting, bookkeeping and auditing activities; tax consultancy
M70	Activities of head offices; management consultancy activities
M701	Activities of head offices
M702	Management consultancy activities
M71	Architectural and engineering activities; technical testing and analysis
M711	Architectural and engineering activities and related technical consultancy
M7111	Architectural activities
M7112	Engineering activities and related technical consultancy
M712	Technical testing and analysis
M72	Scientific research and development
M73TM75	Advertising and market research; other professional, scientific and technical activities; veterinary activities
M73	Advertising and market research
M731	Advertising
M732	Market research and public opinion polling
M74	Other professional, scientific and technical activities
M75	Veterinary activities
N	Administrative and support service activities
N_STS	Administrative and support service activities required by STS Regulation
N77	Rental and leasing activities
N78	Employment activities
N79	Travel agency, tour operator and other reservation service and related activities
N80	Security and investigation activities
N81	Services to buildings and landscape activities
N811	Combined facilities support activities
N812	Cleaning activities
N813	Landscape service activities
N82	Office administrative, office support and other business support activities
S95	Repair of computers and personal and household goods

Attention! Compared to the previous GESMES/TS code lists for activities, the following general rules should be noted:

- A list of two activities is indicated by an underscore "_", as before in GESMES/TS. For example "B_C" remains the same in SDMX-ML as it was in GESMEX/TS.
- A range of three or more activities is indicated by "T" (previously by "_TO_" or by listing). For example, "B_C_D" is "BTD" and "B_TO_E36" is "BTE36" in SDMX-ML.
- An exclusion is indicated by "X" or by "_X" (previously "_X_"). For example, "B_TO_E36_X_FOOD" is "BTE36_XFOOD" in SDMX-ML.

The following 28 activity aggregates are important for STS and the above rules do not explain entirely all of them. If the GESMES/TS codes are used in the compilation system, an automatic transcoding can be carried out in SDMX Convertor with the help of the file printed in **Appendix 4**.

GESMES/TS	SDMX-ML
B_C_D	BTD
B_C_D_F	BTFXE
B_C_D_X_FOOD	BTD_XFOOD
B_C_X_FD_MIG_NRG	B_C_XFDMIG_NRG
B_C_X_FOOD	B_C_XFOOD
B_C_X_MIG_NRG	B_C_XMIG_NRG
B_TO_E36	BTE36
B_TO_E36_F	BTE36_F
B_TO_E36_X_FOOD	BTE36_XFOOD
C_ORD_X_C30	C_ORD_XC30
C10_TO_C12	C10TC12
F_CC11_X_CC113	F_CC11XCC113
F_CC12_X_CC122	F_CC12XCC122
G_TO_N_STS	GTN_STS
G_TO_N_STS_X_G47	GTNXG47
G45_X_G452	G45XG452
G47_NF_OTH	G47_NF_OT
G47_NF_OTH1	G47_NF_OT1
G47_NF_OTH2	G47_NF_OT2
G47_NFOOD_X_G473	G47_NFOOD_XG473
G47_X_G473	G47XG473
H_TO_N_STS	HTN_STS
H494_TO_N812_STS	H494TN812
MIG_COG_X_FOOD	MIG_COG_XFOOD
MIG_NRG_X_D_E	MIG_NRG_XD_E
MIG_NRG_X_E	MIG_NRG_XE
B_TO_E	BTE

CL_TRANSFORMATION

CL_TRANSFORMATION	
AGENCY:	ESTAT
VERSION:	1.2, subset of codes used in STS data sets
CODE	**DESCRIPTION**
N	Non transformed data

CL_BASE_PER

CL_BASE_PER	
AGENCY:	ESTAT
VERSION:	1.0, subset of codes used in STS data sets
CODE	**DESCRIPTION**
0000	Unspecified (can be used for absolute values)
2005	Year 2005
2010	Year 2010

2011	Year 2011
2012	Year 2012
2013	Year 2013
2014	Year 2014
2015	Year 2015
2016	Year 2016
2017	Year 2017
2018	Year 2018
2019	Year 2019
2020	Year 2020
2021	Year 2021
2022	Year 2022
2023	Year 2023
ABS0	Absolute value

CL_UNIT_MULT

CL_UNIT_MULT	
AGENCY:	SDMX
VERSION:	1.0, subset of codes used in STS data sets
CODE	**DESCRIPTION**
0	Units
1	Tens
2	Hundreds
3	Thousands
4	Tens of thousands
6	Millions
9	Billions
12	Trillions
15	Quadrillions

CL_CONF_STATUS

CL_CONF_STATUS	
AGENCY:	SDMX
VERSION:	1.1, subset of codes used in STS data sets
CODE	**DESCRIPTION**
F	Free (free for publication)
N	Not for publication, restricted for internal use only; for STS, "N" is used to flag data under embargo, together with a date and time in EMBARGO_TIME
C	Confidential statistical information

CL_UNIT

CL_UNIT	
AGENCY:	IMF
VERSION:	1.7, subset of codes used in STS data sets
CODE	**DESCRIPTION**
HW	Hours worked
IX	Index
MQ	Square Metres
PN	Pure number
PS	Persons
XDM	Domestic currency (incl. conversion to current currency made using market exchange rate)

CL_OBS_STATUS

CL_OBS_STATUS	
AGENCY:	SDMX
VERSION:	2.0, subset of codes used in STS data sets
CODE	**DESCRIPTION**
A	Normal value
E	Estimated value
P	Provisional value

CL_DECIMALS

CL_DECIMALS	
AGENCY:	SDMX
VERSION:	1.0, subset of codes used in STS data sets
CODE	**DESCRIPTION**
0	Zero
1	One
2	Two
3	Three
4	Four
5	Five
6	Six
7	Seven

CL_TIME_FORMAT

CL_TIME_FORMAT	
AGENCY:	SDMX
VERSION:	1.0, subset of codes used in STS data sets
CODE	**DESCRIPTION**
P1M	Monthly
P3M	Quarterly

The code list for time format includes also the GESMES/TS time formats (e.g. 610 and 710 for monthly data), but in SDMX-ML files, only the SDMX-ML representation for time periods is accepted, for example 2016-05 with P1M and 2016-Q2 with P3M.

APPENDIX 2 – MESSAGE IMPLEMENTATION GUIDELINES

INPUT FILE FORMAT

This section provides some guidance to design the input CSV format to be used for conversion to SDMX-ML with the SDMX Converter Tool.

The header of the CSV file should look like this:
FREQ;REF_AREA;SEASONAL_ADJUST;INDICATOR;ACTIVITY;BASE_PER;TIME_PERIOD;OBS_VALUE;OBS_STATUS;CONF_STATUS;PRE_BREAK_VALUE;EMBARGO_TIME;COMMENT_OBS;COMMENT_DSET;TRANSFORMATION;DECIMALS;UNIT_MULT;UNIT_MEASURE;TIME_FORMAT;COMMENT_TS (fourth example).

The fourth example includes an example of EMBARGO_TIME, with the CONF_STATUS "N".

Examples of CSV files:

1. VSTSCONS_PRIC_Q_LU_2015_0001_STSALL.CSV
Q;LU;N;CSTO;F_CC11_X_CC113;2010;2015-Q1;110.35;E;F;;;;;0;IX;;;P3M;

2. VSTSCONS_PERM_M_HU_2015_0010_STSALL.CSV
M;HU;N;PNUM;F_CC11_X_CC113;ABS0;2015-10;1011;A;F;;;;;0;PN;;;P1M;
M;HU;N;PNUM;F_CC111;ABS0;2015-10;443;A;F;;;;;0;PN;;;P1M;
M;HU;N;PNUM;F_CC112;ABS0;2015-10;568;A;F;;;;;0;PN;;;P1M;
M;HU;N;PSQM;F_CC11_X_CC113;ABS0;2015-10;120029;A;F;;;;;0;MQ;;;P1M;
M;HU;N;PSQM;F_CC111;ABS0;2015-10;63806;A;F;;;;;0;MQ;;;P1M;
M;HU;N;PSQM;F_CC112;ABS0;2015-10;56223;A;F;;;;;0;MQ;;;P1M;
M;HU;N;PSQM;F_CC113;ABS0;2015-10;0;A;F;;;;;0;MQ;;;P1M;
M;HU;N;PSQM;F_CC122;ABS0;2015-10;6264;A;F;;;;;0;MQ;;;P1M;
M;HU;N;PSQM;F_CC12_X_CC122;ABS0;2015-10;309055;A;F;;;;;0;MQ;;;P1M;

3. VSTSSERV_PRIC_Q_PL_2015_0001_STSALL.CSV
Q;PL;N;PRON;H49;2010;2015-Q1;114.2;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRBB;H494;2010;2015-Q1;114.8;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRON;H50;2010;2015-Q1;122.8;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRON;H501_H502;2010;2015-Q1;130.3;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRON;H51;2010;2015-Q1;104.7;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRBB;H52;2010;2015-Q1;121.7;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRBB;H521;2010;2015-Q1;131.7;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRBB;H5224;2010;2015-Q1;117.9;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRON;H531;2010;2015-Q1;115.7;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRON;H532;2010;2015-Q1;105.7;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRON;J61;2010;2015-Q1;76.4;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRBB;J62;2010;2015-Q1;102.3;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRBB;J63;2010;2015-Q1;103.6;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRBB;J631;2010;2015-Q1;103.5;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRON;M69_M702;2010;2015-Q1;105.6;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRON;M69;2010;2015-Q1;108.6;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRBB;M702;2010;2015-Q1;100.9;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRON;M71;2010;2015-Q1;106.2;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRBB;M73;2010;2015-Q1;103.5;A;F;;;;;0;IX;;;P3M;

Q;PL;N;PRBB;N78;2010;2015-Q1;106.3;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRON;N80;2010;2015-Q1;98.7;A;F;;;;;0;IX;;;P3M;
Q;PL;N;PRON;N812;2010;2015-Q1;104.6;A;F;;;;;0;IX;;;P3M;

4. STSCONS_EMPL_Q_SI_2016_0003_4xml.csv

FREQ;REF_AREA;SEASONAL_ADJUST;INDICATOR;ACTIVITY;BASE_PER;TIME_PERIOD;OBS_VALUE;OBS_STATUS;CONF_STATUS;PRE_BREAK_VALUE;EMBARGO_TIME;COMMENT_OBS;COMMENT_DSET;TRANSFORMATION;DECIMALS;UNIT_MULT;UNIT_MEASURE;TIME_FORMAT;COMMENT_TS
Q;SI;N;EMPL;F;2010;2016-Q3;70.5;A;N;;2017-01-13T11:00:00;;A test file;N;2;0;IX;P3M;

OUTPUT FILE FORMAT

The type of the output is eXtensible Markup Language file (extension .xml – not .sdmx or other).

There are two options to generate the SDMX-ML files to be sent to Eurostat:

- Generate SDMX-ML files directly from the production system.
  This can be done by respecting the appropriate structure of the SDMX-ML file as specified by the DSD.

- Generate SDMX-ML files from files in other formats (e.g. CSV).
  The conversion from CSV to SDMX-ML can be done using Eurostat's SDMX Converter. In order to obtain SDMX-ML files, the conversion will be done from CSV format into COMPACT_SDMX format. Eurostat will implement constraints to limit the number of codes used in the DSD in order to improve the content validation of the data.

These are examples of SDMX-ML files of the previous CSV files:

1. VSTSCONS_PRIC_Q_LU_2015_0001_STSALL.XML

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Created with SDMX Converter v4.5.0 -->
<CompactData
 xmlns="http://www.SDMX.org/resources/SDMXML/schemas/v2_0/message"

xmlns:sts="urn:sdmx:org.sdmx.infomodel.keyfamily.KeyFamily=ESTAT:STSALL:2.1:comp
act"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://www.SDMX.org/resources/SDMXML/schemas/v2_0/message
SDMXMessage.xsd
 urn:sdmx:org.sdmx.infomodel.keyfamily.KeyFamily=ESTAT:STSALL:2.1:compact
ESTAT_STSALL_Compact.xsd">
 <Header>
  <ID>STSALL</ID>
  <Test>true</Test>
  <Truncated>true</Truncated>
  <Name xml:lang="en">Test</Name>
  <Prepared>2016-11-30T09:00:00.000+02:00</Prepared>
  <Sender id="001">
   <Contact>
    <Name xml:lang="en">N. N.</Name>
    <Department xml:lang="en">STS</Department>
    <Role xml:lang="en">Statistician</Role>
    <Telephone>+</Telephone>
    <Email>@</Email>
   </Contact>
  </Sender>
  <KeyFamilyRef>STSALL</KeyFamilyRef>
```

```
  <KeyFamilyAgency>ESTAT</KeyFamilyAgency>
  <DataSetID>VSTSCONS_PRIC_Q</DataSetID>
 </Header>
 <sts:DataSet>
  <sts:Series   FREQ="Q"   REF_AREA="LU"   SEASONAL_ADJUST="N"   INDICATOR="CSTO"
ACTIVITY="F_CC11XCC113"    BASE_PER="2010"    UNIT_MULT="0"    UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs      TIME_PERIOD="2015-Q1"      OBS_VALUE="110.35"      OBS_STATUS="E"
CONF_STATUS="F"/>
  </sts:Series>
 </sts:DataSet>
 </CompactData>
```

2. VSTSCONS_PERM_M_HU_2015_0010_STSALL.XML

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Created with SDMX Converter v4.5.0 -->
<CompactData
 xmlns="http://www.SDMX.org/resources/SDMXML/schemas/v2_0/message"

xmlns:sts="urn:sdmx:org.sdmx.infomodel.keyfamily.KeyFamily=ESTAT:STSALL:2.1:comp
act"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://www.SDMX.org/resources/SDMXML/schemas/v2_0/message
SDMXMessage.xsd
 urn:sdmx:org.sdmx.infomodel.keyfamily.KeyFamily=ESTAT:STSALL:2.1:compact
ESTAT_STSALL_Compact.xsd">
 <Header>
  <ID>STSALL</ID>
  <Test>true</Test>
  <Truncated>true</Truncated>
  <Name xml:lang="en">Test</Name>
  <Prepared>2016-11-30T09:00:00.000+02:00</Prepared>
  <Sender id="001">
   <Contact>
    <Name xml:lang="en">N. N.</Name>
    <Department xml:lang="en">STS</Department>
    <Role xml:lang="en">Statistician</Role>
    <Telephone>+</Telephone>
    <Email>@</Email>
   </Contact>
  </Sender>
  <KeyFamilyRef>STSALL</KeyFamilyRef>
  <KeyFamilyAgency>ESTAT</KeyFamilyAgency>
  <DataSetID>VSTSCONS_PERM_M</DataSetID>
 </Header>
 <sts:DataSet>
  <sts:Series FREQ="M" REF_AREA="HU" SEASONAL_ADJUST="N" INDICATOR="PNUM"
ACTIVITY="F_CC11XCC113" BASE_PER="ABS0" UNIT_MULT="0" UNIT_MEASURE="PN"
TIME_FORMAT="P1M" COMMENT_TS=" ">
   <sts:Obs TIME_PERIOD="2015-10" OBS_VALUE="1011" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="M" REF_AREA="HU" SEASONAL_ADJUST="N" INDICATOR="PNUM"
ACTIVITY="F_CC111" BASE_PER="ABS0" UNIT_MULT="0" UNIT_MEASURE="PN"
TIME_FORMAT="P1M">
   <sts:Obs TIME_PERIOD="2015-10" OBS_VALUE="443" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="M" REF_AREA="HU" SEASONAL_ADJUST="N" INDICATOR="PNUM"
ACTIVITY="F_CC112" BASE_PER="ABS0" UNIT_MULT="0" UNIT_MEASURE="PN"
TIME_FORMAT="P1M">
   <sts:Obs TIME_PERIOD="2015-10" OBS_VALUE="568" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="M" REF_AREA="HU" SEASONAL_ADJUST="N" INDICATOR="PSQM"
ACTIVITY="F_CC11XCC113" BASE_PER="ABS0" UNIT_MULT="0" UNIT_MEASURE="MQ"
TIME_FORMAT="P1M">
   <sts:Obs TIME_PERIOD="2015-10" OBS_VALUE="120029" OBS_STATUS="A"
CONF_STATUS="F"/>
```

```
  </sts:Series>
  <sts:Series FREQ="M" REF_AREA="HU" SEASONAL_ADJUST="N" INDICATOR="PSQM"
ACTIVITY="F_CC111" BASE_PER="ABS0" UNIT_MULT="0" UNIT_MEASURE="MQ"
TIME_FORMAT="P1M">
   <sts:Obs TIME_PERIOD="2015-10" OBS_VALUE="63806" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="M" REF_AREA="HU" SEASONAL_ADJUST="N" INDICATOR="PSQM"
ACTIVITY="F_CC112" BASE_PER="ABS0" UNIT_MULT="0" UNIT_MEASURE="MQ"
TIME_FORMAT="P1M">
   <sts:Obs TIME_PERIOD="2015-10" OBS_VALUE="56223" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="M" REF_AREA="HU" SEASONAL_ADJUST="N" INDICATOR="PSQM"
ACTIVITY="F_CC113" BASE_PER="ABS0" UNIT_MULT="0" UNIT_MEASURE="MQ"
TIME_FORMAT="P1M">
   <sts:Obs TIME_PERIOD="2015-10" OBS_VALUE="0" OBS_STATUS="A" CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="M" REF_AREA="HU" SEASONAL_ADJUST="N" INDICATOR="PSQM"
ACTIVITY="F_CC122" BASE_PER="ABS0" UNIT_MULT="0" UNIT_MEASURE="MQ"
TIME_FORMAT="P1M">
   <sts:Obs TIME_PERIOD="2015-10" OBS_VALUE="6264" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="M" REF_AREA="HU" SEASONAL_ADJUST="N" INDICATOR="PSQM"
ACTIVITY="F_CC12XCC122" BASE_PER="ABS0" UNIT_MULT="0" UNIT_MEASURE="MQ"
TIME_FORMAT="P1M">
   <sts:Obs TIME_PERIOD="2015-10" OBS_VALUE="309055" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
 </sts:DataSet>
 </CompactData>
```

3. VSTSSERV_PRIC_Q_PL_2015_0001_STSALL.XML

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Created with SDMX Converter v4.5.0 -->
<CompactData
 xmlns="http://www.SDMX.org/resources/SDMXML/schemas/v2_0/message"

xmlns:sts="urn:sdmx:org.sdmx.infomodel.keyfamily.KeyFamily=ESTAT:STSALL:2.1:comp
act"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://www.SDMX.org/resources/SDMXML/schemas/v2_0/message
SDMXMessage.xsd
 urn:sdmx:org.sdmx.infomodel.keyfamily.KeyFamily=ESTAT:STSALL:2.1:compact
ESTAT_STSALL_Compact.xsd">
 <Header>
  <ID>STSALL</ID>
  <Test>true</Test>
  <Truncated>true</Truncated>
  <Name xml:lang="en">Test</Name>
  <Prepared>2016-11-30T09:00:00.000+02:00</Prepared>
  <Sender id="001">
   <Contact>
    <Name xml:lang="en">N. N.</Name>
    <Department xml:lang="en">STS</Department>
    <Role xml:lang="en">Statistician</Role>
    <Telephone>+</Telephone>
    <Email>@</Email>
   </Contact>
  </Sender>
  <KeyFamilyRef>STSALL</KeyFamilyRef>
  <KeyFamilyAgency>ESTAT</KeyFamilyAgency>
  <DataSetID>VSTSPRIC_PRIC_Q</DataSetID>
 </Header>
 <sts:DataSet>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRON"
ACTIVITY="H49" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX" TIME_FORMAT="P3M"
COMMENT_TS=" ">
```

```
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="114.2" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRBB"
ACTIVITY="H494" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="114.8" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRON"
ACTIVITY="H50" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="122.8" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRON"
ACTIVITY="H501_H502" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="130.3" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRON"
ACTIVITY="H51" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="104.7" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRBB"
ACTIVITY="H52" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="121.7" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRBB"
ACTIVITY="H521" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="131.7" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRBB"
ACTIVITY="H5224" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="117.9" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRON"
ACTIVITY="H531" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="115.7" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRON"
ACTIVITY="H532" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="105.7" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRON"
ACTIVITY="J61" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="76.4" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRBB"
ACTIVITY="J62" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="102.3" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
```

```
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRBB"
ACTIVITY="J63" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="103.6" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRBB"
ACTIVITY="J631" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="103.5" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRON"
ACTIVITY="M69_M702" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="105.6" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRON"
ACTIVITY="M69" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="108.6" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRBB"
ACTIVITY="M702" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="100.9" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRON"
ACTIVITY="M71" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="106.2" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRBB"
ACTIVITY="M73" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="103.5" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRBB"
ACTIVITY="N78" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="106.3" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRON"
ACTIVITY="N80" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="98.7" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
  <sts:Series FREQ="Q" REF_AREA="PL" SEASONAL_ADJUST="N" INDICATOR="PRON"
ACTIVITY="N812" BASE_PER="2010" UNIT_MULT="0" UNIT_MEASURE="IX"
TIME_FORMAT="P3M">
   <sts:Obs TIME_PERIOD="2015-Q1" OBS_VALUE="104.6" OBS_STATUS="A"
CONF_STATUS="F"/>
  </sts:Series>
 </sts:DataSet>
 </CompactData>
```

4. STSCONS_EMPL_Q_SI_2016_0003_4xml.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Created with SDMX Converter v4.5.0 -->
<CompactData
     xmlns="http://www.SDMX.org/resources/SDMXML/schemas/v2_0/message"
     xmlns:sts="urn:sdmx:org.sdmx.infomodel.keyfamily.KeyFamily=ESTAT:STSALL:2.1
:compact"
```

```
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://www.SDMX.org/resources/SDMXML/schemas/v2_0/messa
ge SDMXMessage.xsd
      urn:sdmx:org.sdmx.infomodel.keyfamily.KeyFamily=ESTAT:STSALL:2.1:compact
ESTAT_STSALL_Compact.xsd">
      <Header>
            <ID>STSALL</ID>
            <Test>true</Test>
            <Truncated>true</Truncated>
            <Name xml:lang="en">Test</Name>
            <Prepared>2016-11-30T09:00:00.000+02:00</Prepared>
            <Sender id="001">
                  <Contact>
                        <Name xml:lang="en">N. N.</Name>
                        <Department xml:lang="en">STS</Department>
                        <Role xml:lang="en">Statistician</Role>
                        <Telephone>+</Telephone>
                        <Email>@</Email>
                  </Contact>
            </Sender>
            <KeyFamilyRef>STSALL</KeyFamilyRef>
            <KeyFamilyAgency>ESTAT</KeyFamilyAgency>
            <DataSetID>VSTSCONS_EMPL_Q</DataSetID>
      </Header>
      <sts:DataSet COMMENT_DSET="A test file">
            <sts:Series FREQ="Q" REF_AREA="SI" SEASONAL_ADJUST="N"
INDICATOR="EMPL" ACTIVITY="F" BASE_PER="2010" TRANSFORMATION="N" DECIMALS="2"
UNIT_MULT="0" UNIT_MEASURE="IX" TIME_FORMAT="P3M" COMMENT_TS="">
                  <sts:Obs TIME_PERIOD="2016-Q3" OBS_VALUE="70.5" OBS_STATUS="A"
CONF_STATUS="N" EMBARGO_TIME="2017-01-13T11:00:00"/>
            </sts:Series>
      </sts:DataSet>
      </CompactData>
```

APPENDIX 3 - TOOLS AVAILABLE

SDMX Converter
Converts data files between SDMX formats and other file formats

Data Structure Wizard (DSW)
Used to create, edit and test SDMX artefacts

SDMX Registry
A central repository for storing and sharing SDMX artefacts

SDMX Reference Infrastructure (SDMX-RI)
A set of tools that allows to connect your IT systems to the SDMX world

Mapping Assistant
Mapping and transcoding of the contents of an existing database to SDMX data structures

XSD Generator
Generates a standard XML schema definition for a given SDMX DSD

STS CIRCABC
A collection of documents and links to help creating STS SDMX-ML files. The latest version of this document can be found in this online folder: Library > STS Data Transmission and Release Calendars > data_transmission > SDMX Production 2017.

APPENDIX 3 – STS DATA VALIDATION RULES

1. Introduction

The STS Working Group discussed the list of the ten proposed validation rules in its meeting of 21-22 November 2013 and it was concluded that some rules still needed additional clarification. After the meeting, Eurostat reworked the list of validation rules and sent it to the countries for approval. As a result, a first set of validation rules were agreed by the STS Working Group. These rules are based on the current documents and practices and are thus already familiar to the reporting countries. Some countries raised doubts as regards the four last rules aiming at the consistency of index time series in different presentations (gross, calendar adjusted and seasonally adjusted series).

This Appendix starts with the description of the roles and responsibilities of the stakeholders (Section 2) and then identifies the minimum requirements for data validations that should be performed by the reporting countries before sending data to Eurostat (Section 2).

2. Roles and Responsibilities

The general principle for the roles and responsibilities is that whoever - Eurostat or the reporting country - is producing the data, the same producer is also in charge of validating it. In most cases this allocation of validation tasks is clear.

The transmission of data from the NSIs to Eurostat implies the stability of the **confidentiality status** of the data in both organisations. Additionally, the transmission of **information on big revisions, unexpected observations and discontinued series** with the data from the NSIs to Eurostat is required for the compilation of European aggregates by Eurostat. This information may be exchanged either in SDMX-ML COMMENT_OBS field, EDAMIS envelope or in a separate e-mail.

3. Validation Rules

Given the special characteristics of the STS data - the data are time series, often in index format and transmitted in different presentations (gross, calendar and seasonally adjusted) - the reporting should ensure as a minimum the implementation of the following ten validation rules:

1. The indicators, the periodicity and the last observation period of at least one time series must be the same as in the identification in the EDAMIS flow (e.g. STSIND_PROD_M_LU_2016_0006_V0001.GES has to contain data on industrial production of June 2016). Hence the consignment of the data must correspond to its contents.
2. No missing observations (gaps) are accepted in time series, sent in one or several files – i.e. files should be sent in the chronological order based on the latest observation.
3. Zeroes are not admitted for prices.
4. Negative values are not accepted for any series or observations, including seasonally adjusted series.
5. Different values for the same observation (double values) are not accepted in one file.
6. Transmission of one time series in different presentations (gross, calendar and seasonally adjusted) should be in one file.
7. Transmitted calendar adjusted series should be without calendar effect and seasonally adjusted series without residual seasonality, unless remaining calendar effect or residual seasonality are duly justified in national reference metadata.
8. For more than four consecutive years, the annual averages of series that are adjusted for both calendar and seasonal effects should not be higher than the corresponding averages of the series that are only adjusted for calendar effects. Likewise, they should also not be lower for four consecutive years.
9. For more than four consecutive years, the annual averages of series that are adjusted for calendar effects should not be higher than the corresponding averages of the unadjusted series. Likewise, they should also not be lower for four consecutive years. Scaling average of the base year to 100 may lead to calendar

adjusted series being constantly higher of lower than the unadjusted series. If this is the case, this should be duly justified in national reference metadata.

10. The average index value of the base year (reference year) should be 100 for the unadjusted series, for the calendar adjusted series and for the calendar and seasonally adjusted series, except when the difference from 100 is duly justified in national reference metadata.

In cases where one or several validation rules are considered as impracticable, a short explanation should be included in the ESMS 2.0 field *18.4 Data validation* of the national reference metadata of the concerned indicators.

APPENDIX 4 – TRANSCODING ACTIVITY FROM GESMES/TS TO SDMX-ML

```
<?xml version="1.0" encoding="UTF-8"?>
<mes:Structure
xmlns:mes="http://www.SDMX.org/resources/SDMXML/schemas/v2_0/message"
xmlns:str="http://www.SDMX.org/resources/SDMXML/schemas/v2_0/structure">
  <mes:Header>
    <mes:ID>IDREF1</mes:ID>
    <mes:Test>false</mes:Test>
    <mes:Prepared>2016-06-02T17:00:20.618+02:00</mes:Prepared>
    <mes:Sender id="Unknown"/>
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