



MSCONS

Metered Series Consumption report

Danish EDI Message Implementation Guide

Version: 2
Release: 3
Date: August, 24. 2009

Table of Contents

CHANGE LOG.....	3
1. INTRODUCTION AND GENERAL PRINCIPLES	4
2. DATA MODEL FOR MSCONS.....	4
3. MAPPING TABLE FOR MSCONS.....	5

Change Log

The change log contains any changes added following the previous version or release. A change in **version** indicates significant changes to structure or syntax, whereas a new **release** contains smaller changes.

Chapter	Segment	Change	Dato
3	SG10/DTM	Added to description: The following applies only the "EI market":	24. August 2009
2	-	Figure 1 has been changed to allow repetition of LIN – Multiplicity has been changed from 1..3 to 1..99.	
2	-	Figure 1 has been changed. Quantity status code [0..1] has been changed to Quantity status code [1].	
3	SG6/LOC	ELT and EKS have been removed from this segment.	
3	SG9/LIN	The following line has been added to the description: "For the Gas Market LIN can be repeated up to 99 times."	

1. Introduction and general principles

The EDIFACT specification in the following is based on the *Message handbook for Ediel - Implementation guide for Metered Services Consumption Report*, version 2.4, revision D from May 19th, 2005.

Detailed explanations of the individual segments are not provided in this specification, but are to be found in the above-mentioned document.

2. Data model for MSCONS

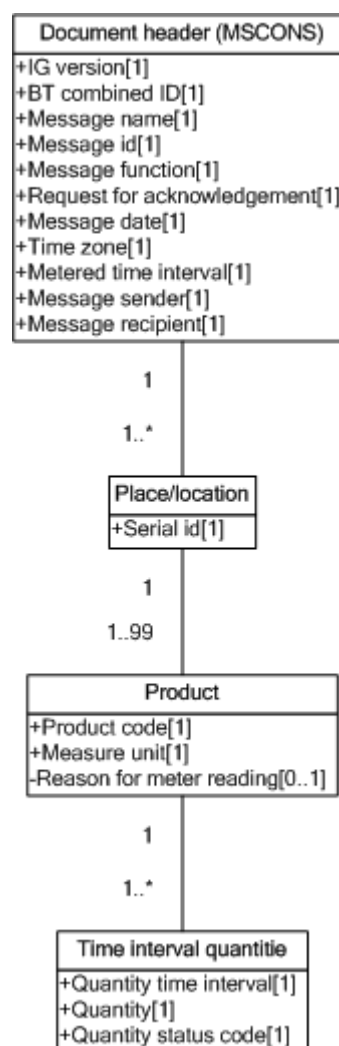


Figure 1: Common data model for MSCONS

3. Mapping table for MSCONS

Segment	Data Element		Description	Attribute	
	Identification	Content			
SG 0 UNH	0062	Message reference, e.g. '1'	A unique reference for the message within the interchange.	<i>Not specified in the dependency matrix, but must be included in the message</i>	
	S009 0065 S009 0052 S009 0054 S009 0051 S009 0057	'MSCONS' 'D' '96A' 'ZZ' 'E2DK02'	The version number of this guide should be stated here. The number consists of "E2" for EDI version 2, "DK" for Danish and "02" for version number 22.	IG version	
	0068	Business Transaction Combined id.	Unique identification of the business transaction and version, e.g. "DK-BT-007-003"	BT combined ID	
	SG 0 BGM	C002 1001	'7' = Process data report, time series 'Z01' = process data report, profiled metering points	EDIFACT- or Ediel-code for the identification of the message in relation to the actual business transaction.	Message name / Meddelelsesnavn
		C002 3055	'260' = Ediel Nordic Forum 'DK' = Danish ebIX Group	Code list responsible agency code. Ediel Nordic Forum '260' is to be used for 'Z01'.	
1004		Message id, e.g. 'SPH1234'	A unique (business related) reference for the message over time. Will be returned in an APERAK, if an APERAK is demanded.	Message id / Meddelelsesidentifikation	
1225		'9' = Original message '5' = Replaced message	The specific use of code '5' is described in the Danish Business Scenarios documents.	Message function / Meddelelsesfunktion	
4343		'NA' = No acknowledgement needed 'AB' = Message acknowledgement is required	Statement of whether the message sender wants an acknowledgement for reception of the message by the application. This is only used on a bilateral agreement.	Request for Acknowledgement / Anmodning om kvittering	
SG 0 DTM Occurrence 1	C507 2005 C507 2380 C507 2379	'137' = Message date and time Actual date and time '203' = Format: CYYMMDDHHmm	Date and the time for composition of the message.	Message date / Meddelelsesdato	
	SG 0 DTM Occurrence 2	C507 2005	'163' = Processing start date/time	Begin and end of meter readings are stated here. All time series have to be within this interval.	Metered time interval / Måletidsinterval
		C507 2380	'164' = Processing end date/time Actual date and time		
C507 2379		'203' = Format: CYYMMDDHHmm			

Segment	Data Element		Description	Attribute
	Identification	Content		
SG 0 DTM Occurrence 3	C507 2005 C507 2380 C507 2379	'ZZZ' = Time zone '0' or '1' = Time zone '805' = Hour	Defines the offset to UTC used for all dates, times and periods in the message. Time Zone can have the value '0' or '1'.	Time zone / Tidszone
SG 2 NAD Occurrence 1	3035 C082 3039 C082 3055	'FR' = Message sender Sender's Party id '9' = EAN (International Article Numbering association) '305' = ETSO (EIC, ETSO identification code)	The party id of the sender of the message. Both EAN and EIC can be used	Message sender / Afsender af meddelelse
SG 2 NAD Occurrence 2	3035 C082 3039 C082 3055	'DO' = Message recipient Recipient's Party id '9' = EAN (International Article Numbering association) '305' = ETSO (EIC, ETSO identification code)	The party id of the recipient of the message. Both EAN and EIC can be used.	Message recipient / Modtager af meddelelse
SG 0 UNS	0081	'D' = Separates the header and detail section	Service segment placed at the start of the detail section to avoid segment collision	<i>Not specified in the dependency matrix, but must be included in the message</i>
SG 5 NAD	3035	'XX' = No heading	A transaction starts with SG5	<i>Not specified in the dependency matrix, but must be included in the message</i>

Segment	Data Element		Description	Attribute
	Identification	Content		
SG 6 LOC	3227	'90' = Serial id	When "message name" in SG 0 is Z01 or consumption to supplier then "serial id" means, "metering point id", i.e. EAN-GSRN-number of 18 digits. Else the serial id is issued by the sender and informed to the receiver.	Serial id / Målepunkt-id/ Serie-id
	C517 3225	Location id (EAN GSRN id for metering point)		
	C517 3055	'9' = EAN (International Article Numbering association) 'DK' = Danish ebIX Group		
	C519 3223 C519 3055	Related place/location one id '9' = EAN (International Article Numbering association) 'DK' = Danish ebIX Group 'ELT' = Eltra 'EKS' = Elkraft System	Uses of Company 1 and area 1 can be found in the code list or shall be bilaterally agreed.	Company 1 / Virksomhed 1
	C519 3222	Related place/location one id		Area 1 / Område 1
	C553 3233 C553 3055	Related place/location two id '9' = EAN (International Article Numbering association) 'DK' = Danish ebIX Group 'ELT' = Eltra 'EKS' = Elkraft System	Uses of Company 2 and area 2 can be found in the code list or shall be bilaterally agreed.	Company 2 / Virksomhed 2
C553 3232	Related place/location two id	Area 2 / Område 2		
SG 9 LIN	1082	Line number (ascending), e.g. '1'	Agreed product code. Codes are stated in separate code list from: - Danish ebIX Group - Elkraft System - Eltra For Z01 the class is repeated 2 or 3 times, one time for every necessary product code (ie. LIN, QTY, DTM, CCI and MEA). For the Gas Market LIN can be repeated up to 99 times.	Product code / Produktkode
	C212 7140	Product code		
	C212 3055	'DK' = Danish ebIX Group 'EKS' = Elkraft 'ELT' = Eltra		

Segment	Data Element		Description	Attribute
	Identification	Content		
SG 9 MEA	6311	'AAZ' = Handling unit measurement	<p>The use of these codes is specified in the code list. Alternatively, the use of the codes can be bilaterally agreed.</p> <p>In the gas market, the values use the following codes:</p> <p>-Values in kWh_g use the code 'KWH'</p> <p>-Values in Nm³ and m³ use the code 'MTQ'</p> <p>-Values in kWh_g/Nm³ use the code 'Z15'</p>	Measure unit / Måleenhed
	C174 6411	'KWH' = kWh 'MWH' = MWh 'KVR' = kvar (Kilovar) 'KWT' = kW (Kilowatt) 'MAW' = MW (Megawatt) 'MVA' = MVA (Megavolt-ampere) 'Z03' = MVA _r (MegaVolt-Ampere reactive power) '3B' = MJ (Megajoule) 'GV' = GJ (Gigajoule) 'GWH' = GWh (Gigawatt-hour) 'KWH' = kWh (Kilowatt-hour) 'K3' = kVA _r h (KiloVolt-Ampere reactive hour) - <i>(also to be used for kVA_rh/h)</i> 'MWH' = MWh (Megawatt-hour) 'Z01' = MWh/h (Megawatt-hour per hour) 'Z02' = kWh/h (Kilowatt-hour per hour) 'Z04' = MVA _r h/h (MegaVolt-Ampere reactive hour per hour) – <i>(also to be used for MVA_rh)</i> 'Z05' = MW/Hz (Frequency adjustment) 'Z09' = MJ/s (Megajoule/second) 'A97' = hPa (Hectopascal), i.e. atmospheric pressure 'CEL' = Degrees Celsius 'D54' = Global solar radiation 'HTZ' = Hertz 'LTR' = Litre 'MMT' = Millimetre (i. e. precipitation) 'MQH' = m ³ /h (Cubic metre per hour), flow rate, e.g. used for hot water 'MQS' = Cubic metre/second, water 'MTQ' = Cubic metre 'MTR' = Metre		

Segment	Data Element		Description	Attribute
	Identification	Content		
		'MTS' =Metre per second (i. e. Wind force) 'P1' = Percent 'SEC' =Seconds 'TNE' =Tonne (metric ton) 'Z07' = 8-parts (i.e. Cloud cover) 'Z08' = Wind direction (0-360) 'Z10' = Only price (see CUX) 'Z14' = Danish Tariff code 'Z15' = kWh/m ³		
SG9 CUX	C504 6347	'2' = Currency details qualifier	ISO currency Code	Currency / Valuta
	C504 6345	'DKK' = Denmark - Krone 'NOK' = Norwegian - Krone 'RUR' = Russia - Ruble 'SEK' = Sweden – Krona 'EUR' =Euro		
SG 10 QTY	C186 6063	'31' = Estimated annual volume / Forventet årsforbrug '99' = Estimated value / Skønnet værdi '136' = Measured value / Målt værdi 'Z01' = Manually corrected quantity/manuelt korrigeret værdi 'Z02' = Preliminary value, estimated / Foreløbig værdi, skønnet 'Z03' = Preliminary value, no value (quantity = 0) / Foreløbig værdi, ingen værdi	Code 136 is used when the value is measured and considered to be correct. Code 99 is used when it is necessary manually to correct a value, e.g. when the total energy is known but hour-allocation must be estimated or used when no measurements are available and the values must be estimated from the same kind of metering points or the same kind of period for the same metering point. Z01 is used for manual consumption corrections in the gas market (the consumption is validated). (Estimated annual volume) is used only for profiled settled metering points.	Quantity status code / Kvantum status kode
	C186 6060	Quantity	Precision is stated in the code list or should be bilaterally agreed. Some time series may indicate the direction with the sign of the quantity. In the gas market, the quantity values can include up to 3 decimal places.	Quantity / Kvantum

Segment	Data Element		Description	Attribute
	Identification	Content		
SG 10 DTM	C507 2005 C507 2380 C507 2379	'324' = Processing date/period Date/period 'Z13' = CCYYMMDDHHmm- CCYYMMDDHHmm (without hyphen) '203' = CCYYMMDDHHmm	The period for the related quantity in SG 10 QTY. Time period begin and stop mentioned in UTC format where the last time is not included. For time series settled metering points the time period is always one hour. Example for a hour: 200301010700200301010800. The following applies only the "EI market": DTM shall not be used when code '31' is used in the Quantity status.	Quantity time interval / Tidsperiode for kvantum
SG 11 CCI	C240 7037	'Z04' = Reason for meter reading	Only valid when "message name" in SG 0 is Z01 (profiled settled metering points). Reason for sending the consumption data for the actual metering point is mentioned here. 1: Used for normal statement of consumption 2: Used for final settlement 3: Used for settlement outside normal meter reading periods 9: Used when a reading is necessary due to changes in the way the metering pint is handled, i.e. changing settlement method from profiled to metered.	Reason for meter reading / Årsag til måler aflæsning
SG 11 MEA	6311 C174 6411 C174 6411 C174 6314	'SV' = Specification value 'ZZ' = Mutually defined Reason for meter reading: '1' = Periodical / Normal aflæsning '2' = Change of supplier / Leverandørskifte '3' = Non-Periodical / Aflæsning uden for normalt aflæsningstidspunkt '9' = Update of master data, metering point, requiring meter reading / Aflæsning ved skift af afregningsform		
SG 0 CNT	C270 6069 C270 6066	'1' = Algebraic total of the quantity values Net sum for the quantity	The net sum for the quantity in the QTY segment in SG 10. Positive quantities are added while negative quantities are subtracted. The net sum for the quantity must include the number of decimals of that quantity, which has the highest number of decimals.	<i>Not specified in the dependency matrix, but must be included in the message</i>
SG 0 UNT	0074 0062	Number of segments in the message Message reference number	The message reference should equal to SG 0 UNH 0062.	<i>Not specified in the dependency matrix, but must be included in the message</i>