



General Specifications Change Notification (GSCN)

WR #	GSCN Name	Ratification Date
20-123	New Application Identifier for – Price per unit of measurement (single monetary area)	Jul 2020

Associated Work Request (WR) Number:

N/A

Background:

GS1 Belgium & Luxembourg, their member Colruyt and their fresh retail community need to encode the "price/kg" in a barcode (to scan this at POS and then print on cash receipt), but they are currently lacking the Application Identifier to do so. AI (8005) price per unit of measure in General Specifications says "content and structure of the price per unit of measure are left to the discretion of the trading partners" there is unwillingness to use this Application Identifier because the definition is vague and doesn't provide guidance on decimal point use.

There is a need to encode the price per kg / lbs in a data carrier (to scan this at POS and then print on receipt), but currently lacking the Application Identifier to do so. AI (392n) price to be paid could be encoded in a data carrier to then have the price per kg recalculated within POS systems. According to General Specifications up to 15 digits can be encoded after this Application Identifier, however solution provider systems can only accommodate 6 digits.

The current "systems" with n=2 and 6 digits encoded after the Application Identifier leads to an error margin when rounding off to recalculate price/kg. To reduce this error margin, n>2 is needed.

This is not favourable because solution providers are reluctant to change to n>2. n>2 eliminates the option of prices going over 9999,99€ (tuna, ...) and it might deceive consumers because it is n=2 on label" according to FPS Economy (Federal Public Service) Metrology department.

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GS1 General Specification Change:

Changes to the following sections:

3.2 GS1 Application Identifiers in numerical order

Figure 3.2-1. GS1 Application Identifiers

AI	Data Content	Format ⁽¹⁾	FNC1 required ⁽⁴⁾	Data title
367n ⁽³⁾	Logistic volume, cubic inches	N4+N6		VOLUME (i ³), log
368n ⁽³⁾	Logistic volume, cubic feet	N4+N6		VOLUME (f ³), log
369n ⁽³⁾	Logistic volume, cubic yards	N4+N6		VOLUME (y ³), log
37	Count of trade items or trade item pieces contained in a logistic unit	N2+N..8	(FNC1)	COUNT
390n ⁽³⁾	Applicable amount payable or Coupon value, local currency	N4+N..15	(FNC1)	AMOUNT
391n ⁽³⁾	Applicable amount payable with ISO currency code	N4+N3+N..15	(FNC1)	AMOUNT
392n ⁽³⁾	Applicable amount payable, single monetary area (variable measure trade item)	N4+N..15	(FNC1)	PRICE
393n ⁽³⁾	Applicable amount payable with ISO currency code (variable measure trade item)	N4+N3+N..15	(FNC1)	PRICE
394n ⁽³⁾	Percentage discount of a coupon	N4+N4	(FNC1)	PRCNT OFF
395n ⁽³⁾	Amount payable per unit of measure single monetary area (variable measure trade item)	<u>N4+N6</u>	<u>(FNC1)</u>	<u>PRICE/UoM</u>
8005	Price per unit of measure	N4+N6	(FNC1)	PRICE PER UNIT

3.6.11 Amount Payable per unit of measure single monetary area (variable measure trade item): AI (395n)

The GS1 Application Identifier (395n) indicates that the GS1 Application Identifier data field contains the amount payable per unit of measure single monetary area (variable measure trade item)

The amount payable per unit of measure refers to an item identified by the Global Trade Item Number (GTIN) of a variable measure trade item and is expressed in local currency. This AI is an attribute of the GTIN and is always used in conjunction with it.

The GS1 Application Identifier digit shown as "n" indicates the implied decimal point position, where the digit 0 means that there is no decimal point, and the digit 1 means that the decimal point is before the last position of the amount payable per unit of measure (single monetary area). See examples in figure below.

The Amount payable per unit of measure single monetary area field contains the price per unit of measure to be paid for the variable measure trade item.

Figure 3.6.11-1. Format of the element string

GS1 Application Identifier	Amount payable per unit of measure single monetary area (variable measure trade item)
<u>3 9 5 n</u>	<u>N₁ N₂ N₃ N₄ N₅ N₆</u>

The figure below shows examples of the decimal point indication

Figure 3.6.11-2. Decimal point indication examples

GS1 Application Identifier	Encoded value	Actual value
3 9 5 3	1 2 3 4 5 6	1 2 3 . 4 5 6
3 9 5 2	1 2 3 4 5 6	1 2 3 4 . 56
3 9 5 1	1 2 3 4 5 6	1 2 3 4 5 . 60
3 9 5 0	1 2 3 4 5 6	1 2 3 4 5 6

The data transmitted from the barcode reader means that the element string denoting the amount payable per unit of measure (single monetary area) has been captured. As this element string is an attribute of a trade item, it must be processed together with the GTIN of the trade item to which it relates. Restrictions apply to the use of AI (395n) in combination with other AIs, (see section 4.14 Data relationships). When indicating this element string in the non-HRI text section of a barcode label, the following data title SHOULD be used: **PRICE/UoM**

3.9.5 Price per unit of measure: AI (8005)

The GS1 Application Identifier (8005) indicates that the GS1 Application Identifier data field contains a price per unit of measure. This element string is used to indicate the price per unit of measure of price marked goods on a variable measure trade item to discriminate price variants of the same item. It is considered as an attribute of the respective trade item and not as part of its identification.

Content and structure of the price per unit of measure field are left to the discretion of the trading partners.

Figure 3.9.5-1. Format of the element string

GS1 Application Identifier	Price per unit of measure					
8 0 0 5	N ₁	N ₂	N ₃	N ₄	N ₅	N ₆

The data transmitted from the barcode reader means that the element string denoting the price per unit of measure has been captured. As this element string is an attribute of a trade item, it must be processed together with the GTIN of the trade item to which it relates (see section 4.14 Data relationships). When indicating this element string in the non-HRI text section of a barcode label, the following data title SHOULD be used: **PRICE PER UNIT**

Note: This element string is not recommended for open and global applications. The use of the Element String denoting "Amount Payable per unit of measure single monetary area (variable measure trade item)" AI (395n) is recommended instead.

4.14.1 Invalid pairs of element strings

This section defines the pairs of element strings that SHALL NOT appear together on the same physical entity. The table does not provide a finite list of all possible rules, only situations that have proven to pose difficulties in practice are included.

Some explanation on figure 4.14.1-1:

- The table is sorted by AI value, with the lowest AI value displayed in the first column.
- Multiple AIs may be listed in the first or third column, separated by commas. This means that the same rule applies to all listed AIs.

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- The rules work in both directions, e.g., if it states AI (01) SHALL NOT be combined with AI (37) this implies that AI (37) SHALL NOT be combined with AI (01).

Figure 4.14.1-1 Invalid pairs of element strings

Invalid pairs of element strings				Rule
AI	Designation	AI	Designation	
01	GTIN	01	GTIN	All occurrences of GTIN SHALL have one value. It is for example not allowed to include GTINs of other packaging levels.
01	GTIN	02	GTIN of contained trade items	GTIN of contained trade items is intended to list the trade items contained in a logistic unit, and SHALL NOT be used to identify the contents of a trade item.
01	GTIN	37	Count of units contained	The count of units contained SHALL only be used with GTIN of contained trade items or trade item pieces.
01	GTIN	255	Global Coupon Number	A trade item SHALL NOT also be identified as a coupon.
390n	Amount payable – single monetary area	391n	Amount payable – with ISO currency code	Only one amount payable element string SHALL be applied on a payment slip.
390n	Coupon value	394n, 8111	Percentage discount of a coupon, Loyalty points of a coupon	The element strings coupon value, percentage discount of a coupon and loyalty points of a coupon SHALL NOT be applied in combination.
392n	Amount payable for a variable measure trade item – single monetary area	393n, 395n	Amount payable for a variable measure trade item and ISO currency code, Amount Payable per unit of measure single monetary area (variable measure trade item)	Only one amount payable element string SHALL be applied on a variable measure trade item.
394n	Percentage discount of a coupon	8111	Loyalty points of a coupon	The element strings percentage discount of a coupon and loyalty points of a coupon SHALL NOT be applied in combination.
395n	Amount Payable per unit of measure single monetary area (variable measure trade item)	8005	Price per unit of measure	The element strings Amount Payable per unit of measure single monetary area (variable measure trade item) and Price per unit of measure SHALL NOT be applied in combination.
395n	Amount Payable per unit of measure single monetary area (variable measure trade item)	392n, 393n	Applicable amount payable, single monetary area (variable measure trade item), Applicable amount payable with ISO currency code (variable measure trade item)	Only one amount payable element string SHALL be applied on a variable measure trade item.
8006	ITIP	01	GTIN	The GTIN SHALL NOT be used in combination with the identification of an individual trade item piece. The GTIN of the trade item to which the individual trade item piece belongs is contained in the element string.

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65 **4.14.2 Mandatory association of element strings**

66 **Figure 4.14.2-1. Mandatory association of element strings**

If element string		Then mandatory associated element string	Rule
AI	Designation	AI	
01 with N ₁ = 0	GTIN of a variable measure trade item scanned at POS	30 OR 3nnn*	The GTIN of a variable measure trade item scanned at POS SHALL occur in combination with: <ul style="list-style-type: none"> ■ variable count of items; or ■ a trade measure Note: Master data will be needed to determine whether the GTIN represents a variable measure trade item scanned at POS. Also see the note below this table.
391n	Amount payable – with ISO currency code	8020 AND 415	The amount payable (with ISO currency code) SHALL occur in combination with the payment slip reference number and the GLN of the invoicing party.
392n	Applicable amount payable - single monetary unit	01 AND (30 XOR <u>31nn XOR 32nn XOR 35nn XOR 36nn</u> *) <u>3nnn</u> *)	The applicable amount payable (single monetary area) SHALL occur in combination with the GTIN and either: <ul style="list-style-type: none"> ■ variable count of items; or ■ a trade measure. Note: The GTIN must relate to a variable measure trade item.
393n	Applicable amount payable – with ISO currency code	01 AND (30 XOR <u>31nn XOR 32nn XOR 35nn XOR 36nn</u> *) <u>3nnn</u> *)	The applicable amount payable (with ISO currency code) SHALL occur in combination with the GTIN and either: <ul style="list-style-type: none"> ■ variable count of items; or ■ a trade measure. Note: The GTIN must relate to a variable measure trade item.
394n	Percentage of a coupon	255	The percentage of a coupon SHALL occur in combination with the Global Coupon Number.
<u>395n</u>	<u>Amount Payable per unit of measure single monetary area (variable measure trade item)</u>	<u>01 AND (30 XOR 31nn XOR 32nn XOR 35nn XOR 36nn (*)</u> *)	<u>The applicable amount payable per unit of measure (single monetary area) SHALL occur in combination with the GTIN and either:</u> <ul style="list-style-type: none"> ■ <u>variable count of items; or</u> ■ <u>a trade measure.</u> <u>Note: The GTIN must relate to a variable measure trade item.</u>
403	Routing code	00	The routing code SHALL occur in combination with an SSCC.
8001	Dimensions of roll products	01	Dimensions of roll products SHALL occur in combination with the GTIN. Note: The GTIN must relate to a variable measure trade item.
8005	Price per unit of measure	01 XOR 02	The price per unit of measure SHALL occur in combination with: <ul style="list-style-type: none"> ■ a GTIN; or ■ a GTIN of contained trade items. Note: The GTIN must relate to a variable measure trade item.
8007	International Bank Account Number	8020 AND 415	The International Bank Account Number SHALL occur in combination with the payment slip reference number and the GLN of the invoicing party.

67 * The AIs for trade measures are set out in section 3.6.2 Trade measures: AIs (31nn, 32nn, 35nn and 36nn)

68 Note: All AIs in section 3.6.2 can be used with this AI 395n.

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70 **8.1 GS1 glossary of terms and definitions**

71 The glossary lists the terms and definitions that are applied in this document. Please refer to the
 72 www.gs1.org/glossary for the online version.

Term	Definition
Unique Device Identifier – Production Identifier (UDI-PI)	A numeric or alphanumeric code that identifies the unit of device production. The different types of UDI-PIs include serial number, lot number, software identification and manufacturing or expiry date or both types of date.
Unit of Use UDI-DI (UoU UDI-DI)	The Unit of Use UDI-DI serves to associate the use of a device with a patient in instances in which a UDI is not labelled on the individual device at the level of its actual use on a patient. For example, three clips (which do not carry a physical UDI marking themselves) are contained in a cartridge which is packaged inside a container, which does carry a labelled UDI.
U.P.C. Company Prefix	A GS1 Company Prefix starting with a zero ('0') becomes a U.P.C. Company Prefix by removing the leading zero. A U.P.C. Company Prefix is used to issue GTIN-12.
U.P.C. Prefix	A GS1 Prefix starting with a zero ('0') becomes a U.P.C. Prefix by removing the leading zero. A U.P.C. Prefix is used to issue U.P.C. Company Prefixes or allocated to other specific areas.
Unique Identification Code (UIC) (per EU 2018/574)	Identifier of an EU 2018/574 ID Issuer that begins with an ISO 15459 Issuing Agency Code.
unit of use	Refers to an individual unit package that is used to make up the patient-specific prescription that is prescribed for administering to a patient.
unrestricted distribution	Signifies that such system data may be applied on goods to be processed anywhere in the world without restraint as to such things as country, company, and industry.

73 **8.2 GS1 abbreviations**

Abbreviation	Term
ADC	Automatic Data Capture
UDI	Unique Device Identifier
UDI-DI	Unique Device Identifier – Device Identifier
UDI-PI	Unique Device Identifier – Production Identifier
<u>UoM</u>	<u>Unit of Measure</u>
UoU	Unit of Use

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