General Specifications Change Notification (GSCN)

WR #	GSCN Name	Effective Date
17-266	Correct combinations of GS1 Element Strings	**20_Dec-2017**

Associated Work Request (WR) Number:

17-000266

Background:

The validation of correct combinations of GS1 element strings used in AIDC is hindered by incorrect and missing information concerning which AIs mandate the presence of other AIs and their associated data fields. Section 4.13 is to be amended so that it provides full and correct information.

GS1 General Specification Change:

The recommended changes are highlighted below, relative to GS1 General Specifications version 17.1.

Disclaimer

~~4.13~~4.14   Data relationships

This section defines the rules for allowed combinations of element strings on the same physical entity, irrespective of the data carrier(s) applied to the entity. The rules are application-neutral, which means that they apply to all applications listed in section 2 and to any other application where multiple element strings are combined on the same physical entity.

The rules are presented in two tables:

1. Invalid pairs of element strings, indicating which combinations of element strings are not allowed on the same physical entity.

2. Mandatory pairs of element strings, indicating which element strings must occur in combination with one or more other element strings.

~~The element strings that require specialised software and/or scanner set up are not covered by these rules. These are the element strings with GS1 Prefixes 0001 to 0007, 02, 04, 05, 20 to 29, 98, and 99; GTIN-8 Prefixes 0 and 2; two-digit and five-digit add-on symbols.~~

Note: In ~~figures 4.13.1-1 and 4.13.2-1~~both tables, the GS1 Application Identifiers (AIs) are used to indicate the element string. But when evaluating the rule the complete element string, i.e. the AI and the data field, needs to be taken into account.

Note: GTINs encoded in an EAN/UPC and ITF-14 symbols are to be regarded as element strings prefixed by an inferred AI (01).

~~The AI (01) is used to indicate a Global Trade Item Number (GTIN); however, the element strings that encode GTINs are defined in section 3. GTINs may be encoded in barcodes from the EAN/UPC symbology family, ITF-14 barcodes, GS1 DataBar symbology family, GS1 DataMatrix and GS1-128 barcodes using AI (01) or AI (8006) and GS1 QR barcodes using AI (01).~~

Note: ~~If d~~Duplicate element strings (e.g., two serial numbers, two batch/lot numbers, two Extended Packaging URLs) MAY~~must~~ appear on the same physical entity (for example in multiple barcodes). In that case they ~~must always~~SHALL have the same value in each occurrence on that entity.

~~**Note**: It is possible to have multiple different National Healthcare Reimbursement Numbers (NHRNs), from different country or regional NHRN authorities, associated with the same GTIN on a given item. It is possible and permissible to change one of these NHRNs without a change to the other NHRNs or to the GTIN.~~

~~**Note**: It is not allowed to have multiple of the same NHRN AI with different data associated with the same GTIN on a given item.~~

~~4.13.1~~4.14.1   Invalid pairs of element strings

This section defines the pairs of element strings that SHALL NOT ~~cannot~~ 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 table 4.13.1-1:

■ 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.

■ 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 pPairs of element strings				CommentRule
AI	Designation	AI	Designation	
01	~~Identification of a trade item~~GTIN	01	~~Identification of a trade item~~GTIN	All occurrences of GTIN SHALL have one value. It is for example not allowed to include GTINs of other packaging levels. ~~Duplicate Global Trade Item Numbers (GTINs) with different values~~
01	GTIN~~Identification of a trade item~~	02	GTIN of contained trade items~~Identification of logistic unit contents~~	GTIN of contained trade items is intended to list the~~AI (02) must not be used for the identification of~~ trade items contained in a ~~trade item~~logistic unit, , and SHALL NOT be used to identify the contents of a trade item.
01	GTIN~~Identification of a trade item~~	37	Count of units contained	The count of units contained ~~would duplicate the master data of the GTIN. AI (37)~~ SHALL~~may~~ only be used with GTIN of contained trade items~~AI (02)~~.
01	GTIN	255	Global Coupon Number	A trade item SHALL NOT also be identified as a coupon.
~~242~~	~~Made-to-Order variation number~~	~~01 or 02 with N₁ not equal to 9~~	~~Identification of a variable measure trade item~~	~~Made-to-Order variation number can only be used with a GTIN-14, indicator digit 9. This represents a Custom Industrial Supply Item~~
420	Ship to postal code, single postal authority	421	Ship to postal code with ISO country code	Only one ship to postal code ~~may~~ be applied on the same physical entity.~~an item~~
422, 423, 424, 425	Country of origin, initial processing, processing, or disassembly~~of a trade item~~	426	Country of full processing	Country of origin, initial processing, processing, or disassembly SHALL NOT be used in combination with country of full processing, since this would lead to ambiguous data. ~~Duplication of country of origin of a trade item (covered by country of full processing)~~
~~423~~	~~Country of initial processing~~	~~426~~	~~Country of full processing~~	~~Duplication of country of initial processing (covered by country of full processing)~~
~~424~~	~~Country of processing~~	~~426~~	~~Country of full processing~~	~~Duplication of country of processing (covered by country of full processing)~~
~~425~~	~~Country of disassembly~~	~~426~~	~~Country of full processing~~	~~Duplication of country of disassembly (covered by country of full processing)~~
390n	Amount payable ~~or Coupon value~~ – single monetary area	391n ~~or 394n or 8111~~	Amount payable – with ISO currency code ~~or Percentage discount of a coupon or Loyalty Points of a coupon~~	Only one amount payable element string ~~may~~ SHALL be applied on a payment slip.~~ or coupon and only one discount condition element string may be applied on a coupon~~
~~8111~~390n	~~Applicable loyalty points for coupon value~~Coupon value	~~390n or 394n,~~ 8111	~~Coupon value or~~ 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. ~~Only one discount condition element string may be applied on a coupon~~
392n	Amount payable for a variable measure trade item – s~~S~~ingle monetary area	393n	Amount payable for a variable measure trade item and ISO currency code	Only one amount payable element string ~~may~~ SHALL be applied on a variable measure trade item.
~~394n~~	Percentage discount of a coupon	~~390n or~~ 8111	~~Coupon value or~~ 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. ~~Only one discount condition element string may be applied on a coupon~~

Commented [CJ26]: ERv171-009: This rule had been removed as a result of WR17-266, but needs to stay to avoid that 494 and 8111 are used in combination.

Invalid pPairs of element strings				CommentRule
AI	Designation	AI	Designation	
710, 711, 712, 713, 714, (…)	National Healthcare Reimbursement Number	Any AI (01) allowable attributes	Any GTIN allowable attributes	When NHRN(s) are applied to the physical trade item with the mandatory association to the GTIN, any attribute AIs must only be processed with the GTIN and must not be processed with the NHRNs (AIs 710, 711, 712, 713, 714…..) alone.
8006	Identification of an individual trade item piece	01	Identification of a trade itemGTIN	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. Other GTINs cannot be used with AI (8006). The trade item is identified by a GTIN contained in the AI (8006).
8111	Applicable loyalty points for coupon value	390n or 394n	Coupon value or Percentage discount of a coupon	Only one discount condition element string may be applied on a coupon
8018	Global Service Relation NumberGSRN for the recipient	8017	Global Service Relation NumberGSRN for the provider	Only one Global Service Relation Number (recipient or provider) can SHALL be applied at one time for identification of an individual in a given service relationship

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Commented [CJ27]: This rule will be removed, which also means that AI (714) that was added for WR17-248 will be removed again. Note that the requirement is covered in the table with mandatory associations.

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4.13.24.14.2 Mandatory association of element strings

This section defines the element strings that mandate the appearance of another element string on the same physical entity.

✅ **Note**: This does not necessarily mean that the element strings need to appear in the same data carrier. For example, multiple GS1-128 barcode symbols may be used in combination on a GS1 Logistics Label.

Some explanation on table 4.13.2-1:

- The table is sorted by AI value, with the AI that is the trigger for the rule displayed in the first column. This means that this table cannot be read in both directions. For example, a rule that says AI (17) must be used together with AI (01), does not imply that AI (17) can only be used together with AI (01), since it can also be used with AI (255) GCN.

Commented [CJ28]: Still to be implemented prior to publication of GenSpecs v18.

- Multiple AIs may be listed in the first column, separated by commas. This means that the rule applies to all of the listed AIs (element strings).

- The same AI can occur in the first column multiple times, in different rows. This means that depending on the value of the element string different rules need to be applied.

- When multiple AIs are included in the third column, this is always done with an AND, OR or XOR logical operator between them:

  □ AND means that both element strings SHALL appear on the physical entity

  □ OR means that one or both of the element strings SHALL appear on the physical entity.

  □ XOR means that one of the element strings SHALL appear on the physical entity, and the other element string(s) SHALL NOT.

Figure 4.14.2-1. Mandatory association of element strings

If element string		Then mandatory associated element string	~~Comment~~Rule
AI	**Designation**	~~AI~~	
01 with N$_1$ = ~~0~~0	GTIN~~Identification~~ of a variable measure trade item scanned at POS	30 ~~or~~XOR 3nnn* ~~or~~ ~~3nnn**~~	The GTIN of a variable measure trade item scanned at POS SHALL occur in combination with: ■ 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. ~~Mandatory association with a variable count or a trade measure information scanned at POS identified with GTIN-12 or GTIN-13. Only GS1 DataBar Expanded barcodes can encode associated elements strings for use at POS. (See note at bottom)~~
01 with N$_1$ = 9,~~or~~ 02 with N$_1$ = 9	~~Identification~~ GTIN of a variable measure trade item not scanned at POS	30 ~~or~~XOR 3nnn* ~~or~~ ~~3nnn** or~~ XOR 8001	The GTIN of a variable measure trade item not scanned at POS SHALL occur in combination with: ■ variable count of items; or ■ a trade measure; or ■ the dimensions of a roll product. Note: The first position of the GTIN is "9" for such trade items.~~Mandatory association with variable measure information not scanned at POS identified with a GTIN-14 starting with indicator digit 9~~ Also ~~(s~~See the ~~Note~~note below this table. ~~at bottom)~~ ~~Only GS1-128, ITF-14, and GS1 DataBar Expanded barcodes can encode a GTIN with N1 = 9.~~
01 with N1 = 9	GTIN of a custom trade item.	242	The GTIN of a custom trade item SHALL be used in combination with the Made-to-Order variation number. Note: The first position of the GTIN is "9" for such trade items.
02	GTIN of contained trade items~~Identification of logistic unit contents~~	00 AND 37	The GTIN of contained trade items SHALL occur in combination with an SSCC and the count of the trade items.~~Mandatory association with an SSCC (Serial Shipping Container Code)~~
~~02~~	~~Identification of logistic unit contents~~	~~37~~	~~Mandatory count of the contained trade items~~
10	Batch/lot number	01 ~~or~~XOR 02 ~~or~~XOR 8006***~~*~~	Batch/lot number SHALL occur in combination with: ■ a GTIN; or ■ a GTIN of contained trade items; or ■ the identification of an individual trade item piece. ~~Mandatory association with a Global Trade Item Number (GTIN) or with the identification of logistic unit contents or with the identification of an individual trade item piece (*).~~
11, 13, 15, 16, 17	Production date, packaging date, best before date, sell by date, expiration date (of a trade item)~~Dates~~	01 ~~or~~XOR 02 XOR~~or~~ 8006***~~*~~	These dates SHALL occur in combination with: ■ a GTIN; or ■ a GTIN of contained trade items; or ■ the identification of an individual trade item piece. ~~Mandatory association with a GTIN or with the identification of logistic unit contents or with the identification of an individual trade item piece.~~
12	Due date	8020 ~~and~~ AND 415	The due date SHALL occur in combination ~~Mandatory association~~ with the payment slip reference number and the ~~Global Location Number (~~GLN~~)~~ of the invoicing party

Commented [CJ29]: ERv171-008

Commented [CJ30]: ERv171-008

If element string		Then mandatory associated element string	~~Comment~~Rule
AI	Designation	AI	
17	Expiration date (of a coupon)	~~01 or 02 or~~ 255~~ or 8006****~~	The expiration date of a coupon SHALL occur in combination with the GCN.~~Mandatory association with a GTIN or with the identification of logistic unit contents or with the Global Coupon Number or with the identification of an individual trade item piece.~~
20	Internal product variant	01 XOR~~or~~ 02 XOR~~or~~ 8006***	Internal product variant SHALL occur in combination with: • a GTIN; or • a GTIN of contained trade items; or • the identification of an individual trade item piece. ~~Mandatory association with a GTIN or with the identification of logistic unit contents or with the identification of an individual trade item piece.~~
21	Serial number	01 ~~or~~ XOR 8006***~~*~~	The serial number SHALL occur in combination with: • a GTIN; or • the identification of an individual trade item piece. Note: SGTIN is a common term for the combination of GTIN and serial number. ~~Mandatory association with a GTIN of a single trade item (a serial number cannot apply to a grouping of trade items) or with the identification of an individual trade item piece. SGTIN is a common term for the mandatory association of AI (21) with GTIN AI (01)~~
22	Consumer product variant	01	The consumer product variant SHALL occur in combination with a GTIN of a retail consumer trade item.~~The consumer product variant must appear in conjunction with AI (01) GTIN on retail consumer trade items.~~
240	Additional product identification	01 XOR~~or~~ 02 XOR~~or~~ 8006***~~*~~	The additional product identification SHALL occur in combination with: • a GTIN; or • a GTIN of contained trade items; or • the identification of an individual trade item piece. ~~Mandatory association with a GTIN or with the identification of logistic unit contents or with the identification of an individual trade item piece.~~
241	Customer part number	01 ~~or~~ XOR 02 XOR~~or~~ 8006***~~*~~	The customer part number SHALL occur in combination with: • the GTIN; or • the GTIN of contained trade items; or • the identification of an individual trade item piece. ~~Mandatory association with a GTIN or with the identification of logistic unit contents or with the identification of an individual trade item piece.~~
242	Made-to-Order variation number	(01 with N_1 = 9) XOR (02 with N_1 = 9) XOR (8006*** with N_1 = 9)~~01 or 02 or 8006**** with N₁ = 9~~	The Made-to-Order variation number SHALL occur in combination with: • the GTIN; or • the GTIN of contained trade items; or • the identification of an individual trade item piece. Note: The GTIN must relate to a custom trade item. The first position of the GTIN is "9" for such trade items.~~Mandatory association with a GTIN-14 with indicator digit 9 represents a custom industrial supply item~~
243	Packaging Component Number	01	The Packaging Component Number SHALL occur in combination with the GTIN ~~Mandatory association with GTIN~~

If element string		Then mandatory associated element string	~~Comment~~Rule
AI	Designation	AI	
250	Secondary serial number	(01 XOR~~or~~ 8006***~~*~~) AND~~and~~ 21	The secondary serial number SHALL occur in combination with the serial number and: ▪ the GTIN; or ▪ the identification of an individual trade item piece. ~~Mandatory association with a GTIN (a secondary serial number cannot apply to a grouping of trade items) or identification of an individual trade item piece and the serial number of the trade item AI (21)~~
251	Reference to source entity	01 ~~or~~ XOR 8006***~~*~~	The reference to source entity SHALL occur in combination with: ▪ the GTIN; or ▪ the identification of an individual trade item piece. ~~Mandatory association with GTIN of the trade item or with the identification of an individual trade item piece.~~
254	GLN e~~E~~xtension component ~~of a GLN~~	414	The GLN extension component SHALL occur with the Identification of a physical location (GLN). ~~Mandatory association with AI (414). Only GS1-128, GS1 DataBar Expanded symbologies, and EPC RFID tags are valid. This is used with GLN and not GTIN.~~
30	Variable count of items	01 ~~or~~ XOR 02	The variable count of items SHALL occur with: ▪ the GTIN; or ▪ the GTIN of contained trade items. Note: The GTIN must relate to a variable measure trade item. ~~Mandatory association with a GTIN for a variable measure trade item (e.g., GTIN-12 or GTIN-13 for trade items scanned at POS, GTIN-14s starting with indicator digit 9 for trade items not scanned at POS) or the identification of variable measure content of a logistic unit~~
~~3nnn*~~	~~Trade measures that cannot be summed~~	~~01~~	~~Mandatory association with a GTIN for a variable measure trade item (e.g., GTIN-12 or GTIN-13 for trade items scanned at POS, GTIN-14s starting with indicator digit 9 for trade items not scanned at POS)~~
3nnn~~*~~*	Trade measures ~~that can be summed~~	01 ~~or~~ XOR 02	Trade measures SHALL occur in combination with: ▪ the GTIN; or ▪ the GTIN of contained trade items. Note: The GTIN must relate to a variable measure trade item.~~Mandatory association with a GTIN for a variable measure trade item (e.g., GTIN-12 or GTIN-13 for trade items scanned at POS, GTIN-14s starting with indicator digit 9 for trade items not scanned at POS) or the identification of variable measure content of a logistic unit~~
3nnn**~~*~~	Logistic measures	00 ~~or~~ OR 01	Logistic measures SHALL occur in combination with: ▪ an SSCC ▪ a GTIN~~Mandatory association with an SSCC or a variable measure GTIN for trade item not scanned at POS (e.g., a GTIN-14 starting with the digit 9)~~
337n	Kilograms per square metre	01	Kilograms per square metre SHALL occur in combination~~Mandatory association~~ with a GTIN.
37	Count of units contained	02	The count of units contained SHALL occur in combination with the GTIN of contained trade items. ~~Mandatory association with the identification of logistic unit contents~~
390n	Amount payable ~~or Coupon value~~ – single monetary area	8020 ~~and~~ AND 415 ~~or 255~~	The amount payable (single monetary area) SHALL occur in combination with the payment slip reference number and the GLN of the invoicing party. ~~Mandatory association with the payment slip reference number and the GLN of the invoicing party or with the Global Coupon Number~~

If element string		Then mandatory associated element string	~~Comment~~Rule
AI	Designation	AI	
390n	Coupon value – single monetary area	255	The coupon value (single monetary area) SHALL occur in combination with the Global Coupon Number.
391n	Amount payable – with ISO currency code	8020 AND~~and~~ 415	The amount payable (with ISO currency code) SHALL occur in combination ~~Mandatory association~~ with the payment slip reference number and the GLN of the invoicing party~~.~~
392n	Applicable ~~a~~Amount payable ~~– when scanned at POS~~ - single monetary unit	01 AND (30 XOR 3nnn*)	The applicable amount payable (single monetary area) SHALL occur in combination with the GTIN and either: ■ variable count of items; or ■ a trade measure. Note: The GTIN must relate to a variable measure trade item.~~Mandatory association with a variable count or a trade measure scanned at POS when identified with a GTIN-12 or GTIN-13.~~
~~392n~~	~~Amount payable when not scanned at POS – single monetary unit~~	~~01~~	~~Mandatory association with a variable measure information when identified GTIN-14.~~
393n	Applicable ~~a~~Amount payable ~~– when scanned at POS~~ –with ISO currency code	01 AND (30 XOR 3nnn*)	The applicable amount payable (with ISO currency code) SHALL occur in combination with the GTIN and either: ■ variable count of items; or ■ a trade measure. Note: The GTIN must relate to a variable measure trade item. ~~Mandatory association with a variable count or a variable measure when scanned at POS and identified with GTIN-12 or GTIN-13.~~
~~393n~~	~~Amount payable when not scanned at POS – with ISO currency code~~	~~01~~	~~Mandatory association with a variable measure information when identified with a GTIN-14.~~
394n	Percentage of a coupon	255	The percentage of a coupon SHALL occur in combination~~Mandatory association~~ with the Global Coupon Number~~.~~
403	Routing code	00	The routing code SHALL occur in combination~~Mandatory association~~ with an SSCC~~.~~
415	GLN of the invoicing party	8020	The GLN of the invoicing party SHALL occur in combination with the payment slip reference number.~~Mandatory association with payment slip reference number~~
422	Country of origin	01 ~~or~~XOR 02 XOR~~or~~ 8006***∗	The country of origin SHALL occur in combination with: ■ the GTIN; or ■ the GTIN of contained trade items; or ■ the identification of an individual trade item piece. ~~Mandatory association with a GTIN or with the identification of an individual trade item piece.~~
423	Country of initial processing	01 XOR~~or~~ 02	The country of initial processing SHALL occur in combination with: ■ the GTIN; or ■ the GTIN of contained trade items. ~~Mandatory association with a GTIN or with the identification of logistic unit contents~~
424	Country of processing	01 XOR~~or~~ 02	The country of processing SHALL occur in combination with: ■ the GTIN; or ■ the GTIN of contained trade items. ~~Mandatory association with a GTIN or with the identification of logistic unit contents~~

If element string		Then mandatory associated element string	~~Comment~~Rule
AI	**Designation**	**AI**	
425	Country of disassembly	01 XOR~~or~~ 02	The country of disassembly SHALL occur in combination with: ▪ the GTIN; or ▪ the GTIN of contained trade items. ~~Mandatory association with a GTIN or with the identification of logistic unit contents~~
426	Country of full processing	01 XOR~~or~~ 02	The country of full processing SHALL occur in combination with: ▪ the GTIN; or ▪ the GTIN of contained trade items. ~~Mandatory association with a GTIN or with the identification of logistic unit contents~~
427	Country subdivision of origin ~~code for a trade item~~	(01 XOR~~or~~ 02) AND~~and~~ 422	The country subdivision of origin SHALL occur in combination with the country of origin and: ▪ the GTIN; or ▪ the GTIN of contained trade items. ~~Mandatory association with a GTIN and the Country of Origin of the trade item~~
7001	NATO stock number	01 XOR~~or~~ 02 XOR~~or~~ 8006***~~*~~	The NATO stock number SHALL occur in combination with: ▪ the GTIN; or ▪ the GTIN of contained trade items; or ▪ the identification of an individual trade item piece. ~~Mandatory association with a GTIN or with the identification of logistic unit contents or with the identification of an individual trade item piece.~~
7002	UN/ECE meat carcasses and cuts classification	01 XOR~~or~~ 02	The UN/ECE meats carcasses and cuts classification SHALL occur in combination with: ▪ the GTIN; or ▪ the GTIN of contained trade items. ~~Mandatory association with a GTIN or with the identification of logistic unit contents~~
7003	Expiration date and time	01 XOR~~or~~ 02	The expiration date and time SHALL occur in combination with: ▪ the GTIN; or ▪ the GTIN of contained trade items. ~~Mandatory association with a GTIN or with the identification of logistic unit contents~~
7004	Active potency	01 AND~~and~~ 10	The expiration date and time SHALL occur in combination with the batch/lot number and the GTIN. ~~Mandatory association with the GTIN and Batch/lot number~~
7005	Catch ~~a~~Area	01 XOR~~or~~ 02	The catch area SHALL occur in combination with: ▪ the GTIN; or ▪ the GTIN of contained trade items. ~~Mandatory association with a GTIN or with the identification of logistic unit contents~~
7006	First freeze date	01 XOR~~or~~ 02	The first freeze date SHALL occur in combination with: ▪ the GTIN; or ▪ the GTIN of contained trade items. ~~Mandatory association with a GTIN or with the identification of logistic unit contents~~
7007	Harvest date	01 XOR~~or~~ 02	The harvest date SHALL occur in combination with: ▪ the GTIN; or ▪ the GTIN of contained trade items. ~~Mandatory association with a GTIN or with the identification of logistic unit contents~~
7008	Species for fishery purposes	01 XOR~~or~~ 02	The species for fishery purposes SHALL occur in combination with: ▪ the GTIN; or ▪ the GTIN of contained trade items. ~~Mandatory association with a GTIN or with the identification of logistic unit contents~~

If element string		Then mandatory associated element string	~~Comment~~Rule
AI	Designation	AI	
7009	Fishing g~~G~~ear type	01 XOR~~or~~ 02	The fishing gear type SHALL occur in combination with: ■ the GTIN; or ■ the GTIN of contained trade items.~~Mandatory association with a GTIN or with the identification of logistic unit contents~~
7010	Production method	01 XOR~~or~~ 02	The production method SHALL occur in combination with: ■ the GTIN; or ■ the GTIN of contained trade items.~~Mandatory association with a GTIN or with the identification of logistic unit contents~~
703(s)	Number of processor	01 XOR~~or~~ 02	The number of processor SHALL occur in combination with: ■ the GTIN; or ■ the GTIN of contained trade items.~~Mandatory association with a GTIN or with the identification of logistic unit contents~~
710 OR 711 OR 712 OR 713 OR 714	National Healthcare Reimbursement Number	01	National Healthcare Reimbursement Number(s) SHALL occur in combination with the GTIN.~~Mandatory association with the GTIN of the trade item~~
~~711~~	~~National Healthcare Reimbursement Number~~	~~01~~	~~Mandatory association with the GTIN of the trade item~~
~~712~~	~~National Healthcare Reimbursement Number~~	~~01~~	~~Mandatory association with the GTIN of the trade item~~
~~713~~	~~National Healthcare Reimbursement Number~~	~~01~~	~~Mandatory association with the GTIN of the trade item~~
7020	Refurbishment lot ID	(01 XOR~~or~~ 8006***) AND~~and~~ 416	The refurbishment lot ID SHALL occur in combination with the GLN of production / service location and: ■ the GTIN; or ■ the identification of an individual trade item piece. ~~Mandatory association with the GTIN or identification of an individual trade item piece and GLN of production/service location.~~
7021	Functional status	01 XOR~~or~~ 8006***	The functional status SHALL occur in combination with: ■ the GTIN of contained trade items; or ■ the identification of an individual trade item piece. ~~Mandatory association with the GTIN or identification of an individual trade item piece.~~
7022	Revision status	(01 XOR~~or~~ 8006***) AND~~and~~ 7021	The revision status SHALL occur in combination with the functional status and: ■ the GTIN; or ■ the identification of an individual trade item piece. ~~Mandatory association with the GTIN or identification of an individual trade item piece and functional status.~~
8001	Dimensions~~Variables~~ 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.~~Mandatory association with a variable measure GTIN (e.g., an GTIN-14 starting with the digit 9)~~

Commented [CJ31]: WR17-248 addition of AI (714)

If element string		Then mandatory associated element string	~~Comment~~Rule
AI	Designation	AI	
8005	Price per unit of measure	01 XOR~~or~~ 02	The price per unit of measure SHALL occur in combination with: ▪ the GTIN; or ▪ the GTIN of contained trade items. Note: The GTIN must relate to a variable measure trade item.~~Mandatory association with a GTIN for a variable measure trade item (e.g., GTIN-12 or GTIN-13 for trade items scanned at POS, GTIN-14s starting with indicator digit 9 for trade items not scanned at POS) or the identification of variable measure content of a logistic unit.~~
8007	International Bank Account Number	8020 AND~~and~~ 415	The International Bank Account Number SHALL occur in combination ~~Mandatory association~~ with the payment slip reference number and the GLN of the invoicing party.
8008	Date and time of production	01 XOR~~or~~ 02	The date and time of production SHALL occur in combination with: ▪ the GTIN; or ▪ the GTIN of contained trade items.~~Mandatory association with a GTIN or with the identification of logistic unit contents~~
8011	~~Component/Part Identifier~~CPID serial number	8010	The CPID serial number SHALL occur in combination with the CPID. ~~Mandatory association with Component/Part Identifier~~
8012	Software Version	01 XOR~~or~~ 8006*****	The software version SHALL occur in combination with: ▪ the GTIN; or ▪ the identification of an individual trade item piece. ~~Mandatory association with a GTIN or with the identification of an individual trade item piece.~~
8019	Service Relation Instance Number	8017 XOR~~or~~ 8018	The Service Relation Instance Number SHALL occur in combination with: ▪ the GSRN for the provider; or ▪ the GSRN for the recipient.~~Mandatory association with a Global Service Relation Number (GSRN)~~
8020	Payment slip reference number	415	The payment slip reference number SHALL occur in combination ~~Mandatory association~~ with the GLN of the invoicing party.
8111	Loyalty points of a coupon	255	Loyalty points of a coupon SHALL occur in combination ~~Mandatory association~~ with the ~~Global Coupon Number~~GCN.
8200	Extended packaging URL	01	The extended packaging URL SHALL occur in combination with the GTIN. ~~Mandatory association with GTIN~~

*	The AIs for trade measures are set out in section *3.6.2 Trade measures: AIs (31nn, 32nn, 35nn, 36nn)*~~Is (3nnn) where the first three digits are 312, 313, 324, 325, 326, 327, 328, and 329~~
**	The AIs for logistics measures are set out in section *3.6.3 Logistic measures: AIs (33nn, 34nn, 35nn, 36nn)* ~~Is (3nnn) where the first three digits are 310, 311, 314, 315, 316, 320, 321, 322, 323, 350, 351, 352, 356, 357, 360, 361, 364, 365, and 366~~
~~***~~	~~Is (3nnn) where the first three digits are 330, 331, 332, 333, 334, 335, 336, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 353, 354, 355, 362, 363, 367, 368, and 369~~
****	If used, the optional AIs on all individual pieces of the~~a~~ trade item ~~and on the trade item itself~~ SHALL be identical.

Note: Exception for point-of-sale. See figure *2.7*–1. Areas of GS1 system application.