



GSMP:

General Specifications Change Notification (GSCN)

WR #	GSCN Name	Effective Date
19-278	Wording Clarification for 4.14.1-1 regarding invalid pairing	2019-10-08

Associated Work Request (WR) Number:

N/A

Background:

The existing wording in Section 4.14.1-1 regarding invalid pairings of serial numbers needs to be clarified to point out only one primary type of serial number shall be indicated.. The changes offer a way to clarify the guidance around this topic.

GS1 General Specification Change:

The changes has been targeted for the Gen Spec V2020 release.

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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.

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

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.
- 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 GTI_N 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.
21	Serial Number	235	Third Party Controlled, Serialised Extension of GTIN	Only Serial Number or Third Party Controlled, Serialised Extension of GTIN SHALL be used with GTIN. Only one type of serial number SHALL be used with GTIN.