

General Specifications Change Notification (GSCN)

WR #	GSCN Name	Ratification Date
23-290	Data carrier choice consistency for transitional use of 2D barcodes	Nov 2023

Associated Work Request (WR) Number:

Background:

Language in several application standard sections (within Section 2) need to have consistent language that points out that 2D barcodes can be used along with the mandatory choices during a transition period. A forward reference to Section 8 is also added and an inconsistency in Section 2.7 must be fixed.

Disclaimer:

GS1®, under its IP Policy, seeks to avoid uncertainty regarding intellectual property claims by requiring the participants in the Work Group that developed this **General Specifications Change Notification** to agree to grant to GS1 members a royalty-free licence or a RAND licence to Necessary Claims, as that term is defined in the GS1 IP Policy. Furthermore, attention is drawn to the possibility that an implementation of one or more features of this Specification may be the subject of a patent or other intellectual property right that does not involve a Necessary Claim. Any such patent or other intellectual property right is not subject to the licencing obligations of GS1. Moreover, the agreement to grant licences provided under the GS1 IP Policy does not include IP rights and any claims of third parties who were not participants in the Work Group.

Accordingly, GS1 recommends that any organisation developing an implementation designed to be in conformance with this Specification should determine whether there are any patents that may encompass a specific implementation that the organisation is developing in compliance with the Specification and whether a licence under a patent or other intellectual property right is needed. Such a determination of a need for licencing should be made in view of the details of the specific system designed by the organisation in consultation with their own patent counsel.

THIS DOCUMENT IS PROVIDED "AS IS" WITH NO WARRANTIES WHATSOEVER, INCLUDING ANY WARRANTY OF MERCHANTABILITY, NONINFRINGEMENT, FITNESS FOR PARTICULAR PURPOSE, OR ANY WARRANTY OTHER WISE ARISING OUT OF THIS SPECIFICATION. GS1 disclaims all liability for any damages arising from use or misuse of this Standard, whether special, indirect, consequential, or compensatory damages, and including liability for infringement of any intellectual property rights, relating to use of information in or reliance upon this document.

GS1 retains the right to make changes to this document at any time, without notice. GS1 makes no warranty for the use of this document and assumes no responsibility for any errors which may appear in the document, nor does it make a commitment to update the information contained herein.GS1 and the GS1 logo are registered trademarks of GS1 AISBL.



2.1.2 Fixed measure trade items - open supply chain

Fixed measure trade items are those that are always produced in the same version and composition (e.g., type, size, weight, contents, design). The identification number identifies the item unambiguously. Every trade item that is different from another in any respect is assigned a separate Global Trade Item Number (GTIN).

2.1.3 Fixed measure trade items scanned at retail POS

A fixed measure consumer trade item that is intended to be read at high-volume-retail point-of-sale (POS). The trade item must SHALL be identified with a GTIN-8, GTIN-12, or GTIN-13. It must SHALL carry a barcode from the EAN/UPC symbology family or the GS1 DataBar® retail POS family. During a transition period, 2D barcodes may be applied in addition to the linear barcode. For information on how to manage multiple barcodes see section 4.15. For a summary of all conformance requirements for this AIDC application standard, 2D barcodes, cross-application rules and related technical specifications, see section 8.2

To support new applications additional GS1 approved data carriers (encoding additional data with the GTIN) may be applied. For information on how to manage multiple barcodes see section 4.15.

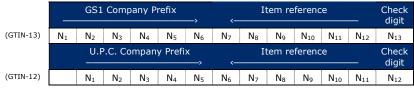
For a summary of all conformance requirements for this AIDC application standard, cross-application rules and related technical specifications, see section 8.3.

Commented [DM2]: WR22-376 Multi barcode mgt

2.1.3.1 Fixed measure trade items scanned at retail POS using GTIN-12 or GTIN-13

Application description

Figure 2.1.3.1-1. GTIN-12/GTIN-13 data structure



The GS1 Company Prefix is allocated by a GS1 Member Organisation to a system user. It makes the ID number unique worldwide but does not identify the origin of the item. Any valid GS1 Company Prefix, other than ones starting with a zero, may be used to issue a GTIN-13 and any valid U.P.C Company Prefix may be used to issue a GTIN-12. The GS1 Prefixes used for this purpose can be found in section $\underline{1.4}$.

The item reference is assigned by the system user, who must observe the rules in section $\underline{4}$.

The check digit is explained in section 7.9. Its verification, carried out automatically by the barcode reader, ensures that the number is correctly composed.

GS1 key

Required

The allowed key formats for this application are:

- GTIN-12
- GTIN-13

Rules

All the GTIN rules described in section 4.



Attributes

Required

Not applicable

Optional

For all the GS1 Application Identifiers (AI) that can be used with a GTIN, see section <u>3</u>.

Rules

Not applicable

Data carrier specification

Carrier choices

The data carriers for this element string are:

- UPC-A barcode (carrying a GTIN-12).
- EAN-13 barcode (carrying a GTIN-13).
- GS1 DataBar Retail POS family (carrying GTIN-12 or GTIN-13 represented in a fixed-length data string of 14 digits by adding leading zeroes).



Note: During a transition period, 2D barcodes may be applied in addition to the linear barcode. For a summary of all conformance requirements for this AIDC application standard, 2D barcodes, cross-application rules and related technical specifications, see section 8.2.

Symbol X-dimensions, minimum symbol height and minimum symbol quality

See section 5.12.3.1, GS1 symbol specification table 1.

Symbol placement

All the symbol placement guidelines are defined in section $\underline{\mathbf{6}}$.

Unique application processing requirements

For a description of processing requirements, see section $\underline{\mathbf{Z}}$.

2.1.3.2 Fixed measure trade items scanned at retail POS using GTIN-12 carried by a UPC-E barcode

Application description

Some GTIN-12s beginning with the U.P.C. Prefix 0 may be represented in a small symbol called the UPC-E barcode. The GTIN-12 is condensed into a barcode consisting of six symbol character positions. For application processing, the GTIN-12 must be transformed into its full length by the barcode reader software or by the application software. There is no six-digit UPC-E barcode. See section 7.10 for UPC-E barcode options.

GS1 key

Required

■ GTIN-12

Rules

All the GTIN rules described in section 4.



Attributes

Not applicable

Data carrier specification

Carrier choices

UPC-E (carrying a GTIN-12 in six explicitly encoded digits using zero-suppression techniques).



Note: During a transition period, 2D barcodes may be applied in addition to the linear barcode. For a summary of all conformance requirements for this AIDC application standard, 2D barcodes, cross-application rules and related technical specifications, see section 8.2.

Symbol X-dimensions, minimum symbol height and minimum symbol quality

See section <u>5.12.3.1</u>, GS1 symbol specification table 1.

Symbol placement

All the symbol placement guidelines defined in section $\underline{6}$.

Unique application processing requirements

For a description of processing requirements, see section 7.

2.1.3.3 Fixed measure trade items scanned at retail POS using GTIN-8

Application description

The GTIN-8 is available for items whose packaging does not include enough available space to permit the use of an EAN-13 symbol. GTIN-8s are individually assigned by GS1 Member Organisations on request. figure 2.1.3.3-1 shows the data structure of a GTIN-8.

Figure 2.1.3.3-1. GTIN-8 data structure

	GS1-8 Prefix			Item	Check digit		
N_1	N_2	N_3	N_4	N_5	N_6	N_7	N ₈

The GS1-8 Prefix is a unique string of two or more digits issued by GS1 Global Office. See section $\underline{1.4.3}$ for the GS1-8 Prefixes used in this element string.

The item reference is assigned by the GS1 Member Organisation. The GS1 Member Organisations provide procedures for obtaining GTIN-8s.

The check digit is explained in section $\overline{7.9}$. Its verification, carried out automatically by the barcode reader, ensures that the number is correctly composed.

GS1 key

Required

GTIN-8

Rules

All the GTIN rules described in section $\underline{\textbf{4}}$.



Attributes

Required

Not applicable

Optional

For all the GS1 Application Identifiers (AI) that can be used with a GTIN, see section 3.

Rules

Not applicable

Data carrier specification

Carrier choices

- EAN-8 (carrying a GTIN-8).
- GS1 DataBar Retail POS family (carrying a GTIN-8).



Note: During a transition period, 2D barcodes may be applied in addition to the linear barcode. For a summary of all conformance requirements for this ALDC application standard, 2D barcodes, cross-application rules and related technical specifications, see section 8.2.

Symbol X-dimensions, minimum symbol height and minimum symbol quality

See section 5.12.3.1, GS1 symbol specification table 1.

Symbol placement

All the symbol placement guidelines defined in section $\underline{6}$.

Unique application processing requirements

For a description of processing requirements, see section $\underline{\mathbf{7}}$.

2.1.3.4 Hardcover books and paperbacks scanned at retail POS using ISBN, GTIN-13, or GTIN-12

Application description

When identifying books and paperbacks a company may identify them in the same manner as any other retail trade items (see section 2.1.3). However, the recommended option is to use the International Standard Book Number (ISBN numbering system). The GS1 Prefixes 978 and 979² have been allocated to ISBN (http://www.isbn-international.org/), which allocates numbers from these 'Bookland' prefixes.



Note: ISBNS SHALL NOT be allocated to non-book products even if the products are related to a book (e.g., teddy bears, coffee mugs, T-shirts, etc. related to a book launch). Such non-book products SHALL be identified and barcoded in the same manner as any other retail trade item (see section 2.1.3). A trade item grouping of identical book items would normally be identified according to section 2.1.7.2. However, an ISBN may also be used to create a 14-digit GTIN with an indicator to identify a trade item grouping of identical book items (refer to section 2.1.7.2) provided that the publisher that issues the 14-digit GTIN is a member of a

 $^{^2}$ Within GS1 Prefix 979 a subset 9790 has been allocated to the International ISMN Agency for notated music.



2.7 Summary of applications and operative scanning environments

The figure below provides a cross-reference for all system applications defined in section 2 and the GS1 symbol specification tables (SSTs) in section 5. The application where the barcode will be used needs to be determined prior to locating the correct symbol specification table (SST) entry. Use the "SST(s)" column to find the SST appropriate for the application area. Because most application areas provide a reference to two symbol specification tables based on the operative scanning environment, a decision must be made between the two. See the decision tree in figure $\frac{5.12.2.6-2}{5.12.2.6-2}$ to determine the correct symbol specification table.

Figure 2.7-1. Areas of GS1 system application_

Figure 2.7-1. Areas of GS1 system application						
Application	See section	SST(s)	Carrier choices			
Fixed measure trade items scanned at retail POS using:	2.1.3					
GTIN-12 or GTIN-13	2.1.3.1	1	UPC-A, EAN-13, GS1 DataBar Retail POS family			
GTIN-12 carried by a UPC-E barcode	2.1.3.2	1	UPC-E			
GTIN-8	2.1.3.3	1	EAN-8, GS1 DataBar Retail POS family			
Hardcover books and paperbacks scanned at retail POS using ISBN, GTIN-13, or GTIN-12	2.1.3.4	1	EAN-13, UPC-A, UPC-E. Options: EAN/UPC 2-digit or 5-digit add-on symbols			
 Serial publications scanned at retail POS using ISSN, GTIN-13, or GTIN-12 	2.1.3.5	1	EAN-13, UPC-A, UPC-E. Options: EAN/UPC 2-digit or 5-digit add-on symbols			
Fixed measure fresh food trade items scanned at retail POS	2.1.3.6	1	GS1 DataBar Omnidirectional, GS1 DataBar Stacked Omnidirectional, UPC- A, EAN-13, EAN-8			
Fixed measure trade items scanned in general distribution and at retail POS	2.1.4	3	EAN/UPC, GS1 DataBar Retail POS family			
Healthcare primary packaging (non-retail trade items)	2.1.5	6	GS1-128, GS1 DataMatrix, GS1 DataBar, EAN/UPC, ITF-14, Composite Component			
Healthcare secondary packaging (regulated healthcare retail consumer trade items)	2.1.6	8 or 10	GS1-128, GS1 DataMatrix, GS1 DataBar, EAN/UPC, ITF-14, Composite Component			
Fixed measure trade items scanned in general distribution	2.1.7	2	EAN/UPC, ITF-14, GS1-128, GS1 DataBar			
Regulated healthcare trade items	2.1.7	8	GS1-128, GS1 DataBar, GS1 DataMatrix, EAN/UPC, ITF-14			
Manufacturing, maintenance, repair and overhaul trade items	2.1.7	4	GS1-128, GS1 DataMatrix, GS1 QR Code			
Medical devices (non-retail trade items)	2.1.8	7	GS1 DataMatrix			
Fixed measure trade items packed in several individual pieces not scanned at retail POS	2.1.9	2, 4	GS1-128, GS1 DataMatrix, GS1 QR Code			
Healthcare trade items	2.1.9	8 or 10	GS1-128			
Variable measure trade items scanned in general distribution	2.1.10	2	GS1-128, GS1 DataBar Expanded, GS1 DataBar Expanded Stacked, ITF-14			
Fixed measure trade items – restricted distribution applications	2.1.11					
Company internal numbering – RCN-8 Prefix 0 or 2	2.1.11.1	1	EAN-8			
Company internal numbering – RCN- 13 GS1 Prefix 04 (RCN-12 U.P.C. Prefix 4)	2.1.11.2	1	EAN-13, UPC-A			
 Company internal numbering – RCN- 12 U.P.C. Prefix 0 (LAC and RZSC) 	2.1.11.3	1	UPC-E			



Assets - Global Returnable Asset Identifier (GRAI) Direct part marking Durable labelling and marking Durable labelling and marking Direct part marking Durable labelling and marking Durable labelling and marking Direct part marking D							
Variable measure fresh food trade items scanned at retail point-of-sale using GTIN Variable measure trade items scanned at retail point-of-sale using CTIN Variable measure trade items scanned at retail point-of-sale using Restricted Circulation Numbers GSI Digital Link PIL Syntax for extended packaging applications for trade items GSI Digital Link PIL Syntax for extended packaging applications for trade items GSI element string syntax for extended packaging applications for trade items Regulated healthcare trade items Regulated trade item, at unit pack level, per EU 2018/574 for tobacco traceability (GTIN + Third-Party Controlled Serialised Extension of GTIN) Regulated trade item, at standard trade grouping level, per EU 2018/574 for tobacco traceability (GTIN + Third-Party Controlled Serialised Extension of GTIN) Regulated logistics unit per EU 2018/574 for tobacco traceability (SGTIN) Regulated logistics units - multiple logistic units (SSCC) Logistics units - individual logistic units (SSCC) Logistics units - multiple logistic units (GSIN, GINC) Assets - Global Returnable Asset Identifier (GRAI) Durable labelling and marking 2.3.1 Journal of Since Active Code Since Code Code Code Code Code Code Code Cod	Application	See section	SST(s)	Carrier choices			
Expanded Stacked GSI- DataMatrix, GSI- QR-Code		2.1.11.4	1	EAN-13 symbols			
point-of-sale using Restricted Circulation Numbers SST Digital Link URI syntax for extended packaging applications for trade items SST Digital Link URI syntax for extended packaging applications for trade items Regulated healthcare trade items 2.1.13.2 1 Addendum - CST DataMatrix, GS1 QR Code Regulated trade item, at unit pack level, per EU 2018/574 for tobacco traceability (GTIN + Third-Party Controlled Serialised Extension of GTIN) Regulated trade item, at standard trade grouping level, per EU 2018/574 for tobacco traceability (GSTIN) Regulated trade item, at standard trade grouping level, per EU 2018/574 for tobacco traceability (SGTIN) Regulated trade item, at standard trade grouping level, per EU 2018/574 for tobacco traceability (SGTIN) Regulated logistics unit per EU 2018/574 for tobacco traceability (SGTIN) Regulated logistics units per EU 2018/574 for tobacco traceability (SGTIN) Logistics units - individual logistic units (SSCC) Logistics units - multiple logistic units (GSIN, GINC) Assets - Global Returnable Asset Identifier (GRAI) Direct part marking Durable labelling and marking 2.3.1 2.6.14 Durable labelling and marking 2.3.2 7 CSI DataMatrix, GS1 QR Code Direct part marking Durable labelling and marking 2.3.2 7 CSI DataMatrix, GS1 QR Code Direct part marking Durable labelling and marking 2.3.1 2.6.14 Durable labelling and marking 2.3.2 7 CSI DataMatrix, GS1 QR Code Direct part marking Durable labelling and marking 2.3.1 2.6.14 Durable labelling and marking 2.3.2 7 CSI DataMatrix, GS1 QR Code Direct part marking Durable labelling and marking 2.3.1 2.6.14 Durable labelling and marking 2.3.2 5 CSI DataMatrix, GS1 QR Code Direct part marking Durable labelling and marking Durable labelling		2.1.12.1	1	Expanded Stacked GS1 DataMatrix, GS1			
Addendender string syntax for extended packaging applications for trade items Selection for trade items Regulated healthcare trade items Regulated healthcare trade items 2.1.13.2 6, 7, 8, or 10,		2.1.12.2	1	EAN-13, UPC-A			
# Regulated healthcare trade items # Regulated healthcare trade items # Regulated trade item, at unit pack level, per EU 2018/574 for tobacco traceability (GTIN + Third-Party Controlled Serialised Extension of GTIN) # Regulated trade item, at standard trade grouping level, per EU 2018/574 for tobacco traceability (GGTIN + Third-Party Controlled Serialised Extension of GTIN) # Regulated trade item, at standard trade grouping level, per EU 2018/574 for tobacco traceability (SGCTIN) # Regulated logistics unit per EU 2018/574 for bacco traceability (SGCTIN) # Regulated logistics unit per EU 2018/574 for bacco traceability (SGCTIN) # Regulated logistics unit per EU 2018/574 for bacco traceability (SGCTIN) # Regulated logistics unit per EU 2018/574 for bacco traceability (SGCC) # Regulated logistics unit per EU 2018/574 for bacco traceability (SGCC) # Logistics units - individual logistic units (SSCC) # Logistics units - multiple logistic units (GSIN, GS1-QR-Code		2.1.13.1	Adden-	Data Matrix, QR Code			
Regulated trade item, at unit pack level, per EU 2018/574 for tobacco traceability (GTIN + Third-Party Controlled Serialised Extension of GTIN) Regulated trade item, at standard trade grouping level, per EU 2018/574 for tobacco traceability (SGTIN) Regulated trade item, at standard trade grouping level, per EU 2018/574 for tobacco traceability (SGTIN) Regulated logistics unit per EU 2018/574 for tobacco traceability (SGSCI) Regulated logistics unit per EU 2018/574 for tobacco traceability (SSCC) Logistics units - individual logistic units (SSCC) Logistics units - individual logistic units (SSCC) Logistics units - multiple logistic units (GSIN, GSI-QR-Code, GSI-128 As-additional-symbol: GSI-DataMatrix, GSI-QR-Code GINC) Assets - Global Returnable Asset Identifier (GRAI) Direct part marking Direct part marking Logistics and marking Logistics units - multiple logistic units (GSIN, GSI-128, GSI-128, GSI-128, GSI-128, GSI-QR-Code GINC) Direct part marking Direct part marki		2.1.13.2	Adden-	GS1 DataMatrix, GS1 QR Code			
2018/574 for tobacco traceability (GTIN + Third-Party Controlled Serialised Extension of GTIN) Regulated trade item, at standard trade grouping level, per EU 2018/574 for tobacco traceability (SGTIN) Regulated logistics unit per EU 2018/574 for tobacco traceability (SGTIN) Regulated logistics unit per EU 2018/574 for tobacco traceability (SGTIN) Regulated logistics unit per EU 2018/574 for tobacco traceability (SGTIN) Regulated logistics unit per EU 2018/574 for tobacco traceability (SGTIN) Regulated logistics unit per EU 2018/574 for tobacco traceability (SGTIN) Regulated logistics unit per EU 2018/574 for tobacco traceability (SGTIN) Regulated logistics unit per EU 2018/574 for tobacco traceability (SGTIN) Regulated logistics unit per EU 2018/574 for tobacco traceability (SGTIN) Regulated logistics unit per EU 2018/574 for tobacco traceability (SGTIN) Regulated logistics unit per EU 2018/574 for tobacco traceability (SGTIN) Regulated trade item, at standard trade grouping level, per EU 2018/574 for tobacco traceability (SGTIN) Regulated trade item, at standard trade grouping level, per EU 2018/574 for tobacco traceability (SGTIN) Regulated trade item, at standard trade grouping level, per EU 2018/574 for tobacco traceability (SGTIN) Set 1128 Set 11	Regulated healthcare trade items	2.1.13.2		GS1 DataMatrix only			
level, per EU 2018/574 for tobacco traceability (SGTIN) Regulated logistics unit per EU 2018/574 for tobacco traceability (SSCC) Logistics units - individual logistic units (SSCC) Logistics units - multiple logistic units (GSIN, Sci QR Code GINC) Logistics units - multiple logistic units (GSIN, Sci QR Code GINC) Logistics units - multiple logistic units (GSIN, Sci QR Code GINC) Logistics units - multiple logistic units (GSIN, Sci QR Code GINC) Logistics units - multiple logistic units (GSIN, Sci QR Code GINC) Logistics units - multiple logistic units (GSIN, Sci QR Code GINC) Logistics units - multiple logistic units (GSIN, Sci QR Code GINC) Logistics units - individual Asset Identifier (GRAI) Logistics units - individual Asset Identifi	2018/574 for tobacco traceability (GTIN + Third-Party Controlled Serialised	2.1.14	12				
tobacco traceability (SSCC) Logistics units - individual logistic units (SSCC) Logistics units - individual logistic units (SSCC) Logistics units - multiple logistic units (GSIN, GS1 QR Code GINC) Assets - Global Returnable Asset Identifier (GRAI) Septimental Polymerical Polym	level, per EU 2018/574 for tobacco traceability	2.1.14	12	GS1 DataMatrix, GS1 QR Code, GS1-128			
As additional symbol: GS1 DataMatrix, GS1 QR Code GINC) Assets - Global Returnable Asset Identifier (GRAI) Direct part marking Durable labelling and marking Direct part marking Durable labelling and marking Direct part DataMatrix, GS1 DataMatrix, GS1 DataMatrix, GS1 DataMatri		2.1.14	12	GS1 DataMatrix, GS1 QR Code, GS1-128			
Logistics units - multiple logistic units (GSIN, GINC) Assets - Global Returnable Asset Identifier (GRAI) Direct part marking Durable labelling and marking Durable labelling and marking Direct part marking	Logistics units - individual logistic units (SSCC)	2.2.1	5	As additional symbol: GS1 DataMatrix,			
Direct part marking 2.3.1, 2.6.14 7 GS1 DataMatrix, GS1 QR Code Durable labelling and marking 2.3.1, 2.6.14 Assets - Global Individual Asset Identifier (GIAI) Direct part marking 2.3.2 9 GS1-128, GS1 DataMatrix, GS1 QR Code Direct part marking 2.3.2 7 GS1 DataMatrix, GS1 QR Code Durable labelling and marking 2.3.2 2.6.14 Durable labelling and marking 2.3.2 2.6.14 Identification of a physical location 2.4.2 9 GS1-128, GS1 DataMatrix, GS1 QR Code Code, EPC/RFID Service relationships 2.5 11 GS1 DataBar Expanded, GS1 DataBar Expanded Stacked, GS1-128, GS1 DataBar Expanded Stacked, GS1-128, GS1 DataBar Expanded Stacked GS1 DataBar Expanded Stacked GS1 DataBar Expanded Stacked Coupon identification for restricted geographic distribution (GS1 Prefix 99) GS1 common currency coupon identification (GS1 Prefix 99) GS1 DataBar Expanded Stacked EAN-13 EAN-13 Coupon code identification for use in North America (AIs (8110), (8112)) Coupon code identification for use in North America (AIs (8110), (8112)) America (AIs (8110), (8112))		2.2.2, 2.2.3	5	GS1-128, GS1 DataMatrix, GS1 QR Code			
Durable labelling and marking 2.3.1, 2.6.14 Assets - Global Individual Asset Identifier (GIAI) Direct part marking 2.3.2 Direct part marking 2.3.2 Durable labelling and marking 2.3.2 Durable labelling and marking 2.3.2 2.6.14 Durable labelling and marking 2.3.2 Durable labelling and marking Substitution of a physical location 2.4.2 Durable labelling and marking Substitution of a physical location 2.4.2 Durable labelling and marking Substitution of a physical location 2.4.2 Durable labelling and marking Substitution of a physical location 2.4.2 Durable labelling and marking Substitution of a physical location Substitu	Assets - Global Returnable Asset Identifier (GRAI)	2.3.1	9	GS1-128, GS1 DataMatrix, GS1 QR Code			
Assets - Global Individual Asset Identifier (GIAI) 2.3.2 9	Direct part marking		7	GS1 DataMatrix, GS1 QR Code			
Direct part marking 2.3.2 2.6.14 Durable labelling and marking 2.3.2 2.6.14 Durable labelling and marking 2.3.2 2.6.14 Jeffixes 981 to 983) Direct part marking 2.3.2 2.6.14 Population of a physical location 2.4.2 Population of a physical location 2.6.1 Population of a physical location 2.6.2 Population of a physical location 2.6.3 Population of a physical location 2.6.3 Population of a physical location 2.6.3 Population of a physical location 2.6.1 Population of a physical location 2.6.2 Population of a physical location Population of a physical location 2.6.1 Population of a physical location Populatio	 Durable labelling and marking 		9, 13	GS1-128, GS1 DataMatrix, GS1 QR Code			
Durable labelling and marking 2.3.2 2.6.14 Identification of a physical location 2.4.2 Service relationships 2.5 11 Coupons identified using the Global Coupon Number Coupon identification for restricted geographic distribution (GS1 Prefix 99) GS1 common currency coupon identification (GS1 Prefixes 981 to 983) Coupon code identification for use in North America (AIs (8110), (8112)) 2.6.14 9, 13 GS1-128, GS1 DataMatrix, GS1 QR Code Code, EPC/RFID 11 GS1 DataBar Expanded, GS1 DataBar Expanded, GS1 DataBar Expanded Stacked, GS1 128, GS1 DataBar Expanded Stacked 12.6.3.3 2.6.3.4 2.6.3.5 Coupon code identification for use in North America (AIs (8110), (8112)) 2.6.3.6 2.6.3.7 (*) GS1 DataBar Expanded, GS1 DataBar Expanded, GS1 DataBar Expanded Stacked or digitally transmitted	Assets - Global Individual Asset Identifier (GIAI)	2.3.2	9	GS1-128, GS1 DataMatrix, GS1 QR Code			
Zef.14 Zef.14 Zef.14 Zef.12 Zef.14 Zef.12 Zef.14 Zef.15 Zef.16 Z	Direct part marking		7	GS1 DataMatrix, GS1 QR Code			
Service relationships 2.5 11 Service relationships 2.5 11 Service relationships 2.5 11 Service relationships 2.5 11 Service relationships 2.6 Service relationships 2.5 11 Service relationships 2.6 Service relationships Service relati	Durable labelling and marking		9, 13	GS1-128, GS1 DataMatrix, GS1 QR Code			
Expanded Stacked, GS1-128, GS1 DataMatrix, GS1 QR Code Coupons identified using the Global Coupon Number Coupon identification for restricted geographic distribution (GS1 Prefix 99) GS1 common currency coupon identification (GS1 Prefixes 981 to 983) Coupon code identification for use in North America (AIs (8110), (8112)) Expanded Stacked, GS1-128, GS1 GS1 DataBar Expanded, GS1 DataBar Expanded Stacked (*) GS1 DataBar Expanded, GS1 DataBar Expanded Stacked or digitally transmitted	Identification of a physical location	2.4.2	9				
Number Coupon identification for restricted geographic distribution (GS1 Prefix 99) GS1 common currency coupon identification (GS1 Prefixes 981 to 983) Coupon code identification for use in North America (AIs (8110), (8112)) 2.6.3.6 2.6.3.7 (*) GS1 DataBar Expanded, GS1 DataBar Expanded Stacked or digitally transmitted	Service relationships	2.5	11	Expanded Stacked, GS1-128, GS1			
distribution (GS1 Prefix 99) GS1 common currency coupon identification (GS1 Prefixes 981 to 983) Coupon code identification for use in North America (AIs (8110), (8112)) 2.6.3.5 (*) GS1 DataBar Expanded, GS1 DataBar Expanded, GS1 DataBar Expanded Stacked or digitally transmitted		2.6.2	1				
GS1 common currency coupon identification (GS1 Prefixes 981 to 983) Coupon code identification for use in North America (AIs (8110), (8112)) 2.6.3.6 2.6.3.7 (*) GS1 DataBar Expanded, GS1 DataBar Expanded Stacked or digitally transmitted			1	EAN-13			
America (AIs (8110), (8112)) 2.6.3.7 Expanded Stacked or digitally transmitted							
Refund receipts 2.6.4 1 EAN-13			(*)	Expanded Stacked or digitally			
2.0.4 I LAW 15	Refund receipts	2.6.4	1	EAN-13			



Application	See section	SST(s)	Carrier choices
Electronic serial identifier for cellular mobile telephones (CMTI): AI (8002)	2.6.5	4	GS1-128
Payment slips	2.6.6	4	GS1-128
Customer specific articles	2.6.7	1	EAN-13, UPC-A, ITF-14, GS1-128
Custom trade item	2.6.8	4	GS1-128, GS1 DataBar, GS1 DataMatrix, GS1 QR Code
Global Document Type Identifier for document control	2.6.9	9	GS1-128, GS1 DataMatrix, GS1 QR Code
Internal applications	2.6.10	N/A	GS1-128, GS1 DataBar Expanded, GS1 DataMatrix, GS1 QR Code
Consumer trade item production control	2.6.11	N/A	GS1 DataBar, GS1 DataMatrix, GS1 QR Code, GS1-128, Composite Component
Component/part identification	2.6.12	N/A	GS1-128, GS1 DataMatrix, GS1 QR Code, EPC/RFID
Global Model Number	2.6.13	4	GS1 DataMatrix, GS1 QR Code, EPC/RFID
Permanently marked items	2.6.14	4, 7, 9, 13	GS1 DataMatrix, GS1 QR Code, EPC/RFID
Encoding transport process information	2.6.15	5	GS1-128, GS1 DataMatrix, GS1 QR Code, EPC/RFID
Digital Signature (DigSig) detailed in ISO/IEC 20248	2.6.16	(**)	(***) GS1 DataMatrix, GS1 QR Code, DataMatrix (GS1 Digital Link URI), QR Code (GS1 Digital Link URI), EPC/RFID

^(*) See US Coupon Application Guideline Using GS1 DataBar Expanded Symbols for the appropriate SST.

(**) Refer to the application standard of the required GS1 key, for the appropriate SST.

Commented [DM9]: WR 21-307

Commented [DM10]: WR 21-307

^(***) Refer to the application standard of the required GS1 key, to determine if one of the listed data carriers for Digital Signature (DigSig) is permitted, or if it is only permitted in addition to another data carrier that is incapable of encoding Digital Signature (DigSig) e.g., EAN/UPC, GS1-128, ITF-14, GS1 DataBar.