

GSMP:

General Specifications Change Notification (GSCN)

GSCN #	GSCN Name	Effective Date
16-410	Allowed Implied Decimal Point Position Value for AI	7 Nov 2016

Associated Work Request (WR) Number:

WR 16-410

Background:

- 1) The GS1 Gen Specs v16 (and earlier) are unclear and ambiguous as to what are the allowed implied decimal point position values for Application Identifiers that support this feature. Specific examples would be AI(392n) and AI(394n), among many others. Development of a proper parsing algorithm for syntax validation (for example, by a barcode verifier manufacturer or user) cannot proceed with making assumptions as to what is allowed and proper or otherwise. Without further clarification data integrity is at risk.
- 2) Further to this issue, in "Figure 3.2 1. GS1 Application Identifiers", in the leftmost column titled "AI", for the AIs that support the implied decimal place feature, the "n" that is supposed to be shown in the 4th position of the AI to indicate the implied decimal point position has been omitted for all but AI(394n).

GS1 General Specification Change:

The recommended changes are highlighted in the attached excerpt from the GS1 General Specifications, v16.

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3.1 Introduction

This section describes the meaning, structure, and function of the GS1 system element strings so they can be correctly processed in users' application programmes. An element string is the combination of a GS1 Application Identifier and a GS1 Application Identifier data field. The allowable character set to be used for GS1 Application Identifier element strings is defined in section 7.117.41. There are AIs that have additional syntax restrictions, e.g. numerical only; see below definition for each AI.

Automatic processing of element strings in business applications requires information about the type of transaction to which the transferred data refers. See section 7 for an explanation of this process. Element strings can be carried by GS1-128, GS1 DataBar symbology, GS1 Composite, GS1 DataMatrix and GS1 QR Code symbols. The rules for use and interrelationships between the Application Identifiers are contained in section 2 and 4.

When a pre-defined length GS1 key and attributes are encoded together, the GS1 key SHOULD appear before the attributes. In most cases pre-defined length element strings SHOULD be followed by non pre-defined element strings. The sequence of pre-defined and non pre-defined element strings should be at the discretion of the bread-ownercreator-of-the-element-strings.

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3.2 GS1 Application Identifiers in numerical order

Figure 3.2-1. GS1 Application Identifiers

AI	Data Content	Format (*)	FNC1 required (****)	Data title
00	Serial Shipping Container Code (SSCC)	N2+N18		SSCC
01	Global Trade Item Number (GTIN)	N2+N14		GTIN
02	GTIN of contained trade items	N2+N14		CONTENT
10	Batch or lot number	N2+X20	(FNC1)	BATCH/LOT
11 (**)	Production date (YYMMDD)	N2+N6		PROD DATE
12 (**)	Due date (YYMMDD)	N2+N6		DUE DATE
13 (**)	Packaging date (YYMMDD)	N2+N6		PACK DATE
15 (**)	Best before date (YYMMDD)	N2+N6		BEST BEFORE or BEST BY
16 (**)	Sell by date (YYMMDD)	N2+N6		SELL BY
17 (**)	Expiration date (YYMMDD)	N2+N6		USE BY OR EXPIRY
20	Variant number	N2+N2		VARIANT
21	Serial number	N2+X20	(FNC1)	SERIAL
240	Additional item identification	N3+X30	(FNC1)	ADDITIONAL ID
241	<u>Customer part number</u>	N3+X30	(FNC1)	CUST. PART NO.
242	Made-to-Order variation number	N3+N6	(FNC1)	MTO VARIANT
243	Packaging component number	N3+X20	(FNC1)	PCN
250	Secondary serial number	N3+X30	(FNC1)	SECONDARY SERIAL
251	Reference to source entity	N3+X30	(FNC1)	REF. TO SOURCE
253	Global Document Type Identifier (GDTI)	N3+N13+X17	(FNC1)	GDTI
254	GLN extension component	N3+X20	(FNC1)	GLN EXTENSION COMPONENT
255	Global Coupon Number (GCN)	N3+N13+N12	(FNC1)	GCN
30	Count of items (variable measure trade item)	N2+N8	(FNC1)	VAR. COUNT



AI	Data Content	Format (*)	FNC1 required (****)	Data title
310 <u>n</u> (***)	Net weight, kilograms (variable measure trade item)	N4+N6		NET WEIGHT (kg)
311 <u>n</u> (***)	Length or first dimension, metres (variable measure trade item)	N4+N6		LENGTH (m)
312 <u>n</u> (***)	Width, diameter, or second dimension, metres (variable measure trade item)	N4+N6		WIDTH (m)
313 <u>n</u> (***)	Depth, thickness, height, or third dimension, metres (variable measure trade item)	N4+N6		HEIGHT (m)
314 <u>n</u> (***)	Area, square metres (variable measure trade item)	N4+N6		AREA (m²)
315 <u>n</u> (***)	Net volume, litres (variable measure trade item)	N4+N6		NET VOLUME (I)
316 <u>n</u> (***)	Net volume, cubic metres (variable measure trade item)	N4+N6		NET VOLUME (m³)
320 <u>n</u> (***)	Net weight, pounds (variable measure trade item)	N4+N6		NET WEIGHT (lb)
321 <u>n</u> (***)	Length or first dimension, inches (variable measure trade item)	N4+N6		LENGTH (i)
322 <u>n</u> (***)	Length or first dimension, feet (variable measure trade item)	N4+N6		LENGTH (f)
323 <u>n</u> (***)	Length or first dimension, yards (variable measure trade item)	N4+N6		LENGTH (y)
324 <u>n</u> (***)	Width, diameter, or second dimension, inches (variable measure trade item)	N4+N6		WIDTH (i)
325 <u>n</u> (***)	Width, diameter, or second dimension, feet (variable measure trade item)	N4+N6		WIDTH (f)
326 <u>n</u> (***)	Width, diameter, or second dimension, yards (variable measure trade item)	N4+N6		WIDTH (y)
327 <u>n</u> (***)	Depth, thickness, height, or third dimension, inches (variable measure trade item)	N4+N6		HEIGHT (i)
328 <u>n</u> (***)	Depth, thickness, height, or third dimension, feet (variable measure trade item)	N4+N6		HEIGHT (f)
329 <u>n</u> (***)	Depth, thickness, height, or third dimension, yards (variable measure trade item)	N4+N6		HEIGHT (y)
330 <u>n</u> (***)	<u>Logistic weight, kilograms</u>	N4+N6		GROSS WEIGHT (kg)
331 <u>n</u> (***)	Length or first dimension, metres	N4+N6		LENGTH (m), log
332 <u>n</u> (***)	Width, diameter, or second dimension, metres	N4+N6		WIDTH (m), log
333 <u>n</u> (***)	Depth, thickness, height, or third dimension, metres	N4+N6		HEIGHT (m), log
334 <u>n</u> (***)	Area, square metres	N4+N6		AREA (m²), log
335 <u>n</u> (***)	Logistic volume, litres	N4+N6		VOLUME (I), log
336 <u>n</u> (***)	Logistic volume, cubic metres	N4+N6		VOLUME (m³), log
337 <u>n</u> (***)	Kilograms per square metre	N4+N6		KG PER m ²

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AI	Data Content	Format (*)	FNC1 required (****)	Data title
340 <u>n</u>	Logistic weight, pounds	N4+N6	(****)	GROSS WEIGHT
(***) 341 <u>n</u>	Length or first dimension, inches	N4+N6		(lb) LENGTH (i), log
(***) 342 <u>n</u>	Length or first dimension, feet	N4+N6		LENGTH (f), log
(***) 343 <u>n</u> (***)	Length or first dimension, yards	N4+N6		LENGTH (y), log
344 <u>n</u> (***)	Width, diameter, or second dimension, inches	N4+N6		WIDTH (i), log
345 <u>n</u> (***)	Width, diameter, or second dimension, feet	N4+N6		WIDTH (f), log
346 <u>n</u> (***)	Width, diameter, or second dimension, yard	N4+N6		WIDTH (y), log
347 <u>n</u> (***)	Depth, thickness, height, or third dimension, inches	N4+N6		HEIGHT (i), log
348 <u>n</u> (***)	Depth, thickness, height, or third dimension, feet	N4+N6		HEIGHT (f), log
349 <u>n</u> (***)	Depth, thickness, height, or third dimension, yards	N4+N6		HEIGHT (y), log
350 <u>n</u> (***)	Area, square inches (variable measure trade item)	N4+N6		AREA (i²)
351 <u>n</u> (***)	Area, square feet (variable measure trade item)	N4+N6		AREA (f²)
352 <u>n</u> (***)	Area, square yards (variable measure trade item)	N4+N6		AREA (y²)
353 <u>n</u> (***)	Area, square inches	N4+N6		AREA (i²), log
354 <u>n</u> (***)	Area, square feet	N4+N6		AREA (f²), log
355 <u>n</u> (***)	Area, square yards	N4+N6		AREA (y²), log
356 <u>n</u> (***)	Net weight, troy ounces (variable measure trade item)	N4+N6		NET WEIGHT (t)
357 <u>n</u> (***)	Net weight (or volume), ounces (variable measure trade item)	N4+N6		NET VOLUME (oz)
360 <u>n</u> (***)	Net volume, quarts (variable measure trade item)	N4+N6		NET VOLUME (q)
361 <u>n</u> (***)	Net volume, gallons U.S. (variable measure trade item)	N4+N6		NET VOLUME (g)
362 <u>n</u> (***)	Logistic volume, quarts	N4+N6		VOLUME (q), log
363 <u>n</u> (***)	Logistic volume, gallons U.S.	N4+N6		VOLUME (g), log
364 <u>n</u> (***)	Net volume, cubic inches (variable measure trade item)	N4+N6		VOLUME (i³)
365 <u>n</u> (***)	Net volume, cubic feet (variable measure trade item)	N4+N6		VOLUME (f³)
366 <u>n</u> (***)	Net volume, cubic yards (variable measure trade item)	N4+N6		VOLUME (y³)



1 1 1 1 1 1 1 1 1 1					
1.0 368n Logistic volume, cubic feet N4+N6 VOLUME (F), log VOLUME (F), l	AI	Data Content	Format (*)	FNC1 required (****)	Data title
Centrol of Italian Country		Logistic volume, cubic inches	N4+N6		VOLUME (i³), log
Count of trade items		Logistic volume, cubic feet	N4+N6		VOLUME (f3), log
Applicable amount payable or Coupon value, International Processing (***) International Process Chain		Logistic volume, cubic yards	N4+N6		
1	37	Count of trade items	N2+N8	(FNC1)	COUNT
Code Applicable amount payable, single monetary area (variable measure trade item) N4+N15 (FNC1) PRICE			N4+N15	(FNC1)	AMOUNT
(***) area (variable measure trade item) N3930 Applicable amount payable with ISO currency code (variable measure trade item) N4+N3+N15 (FNC1) PRICE 3930 Percentage discount of a coupon N4+N4 (FNC1) PRCNT OFF 400 Customer's purchase order number N3+X30 (FNC1) ORDER NUMBER 401 Global Identification Number for Consignment (GINC) N3+X30 (FNC1) GINC 402 Global Shipment Identification Number (GSIN) N3+N.17 (FNC1) GSIN 403 Routing code N3+X30 (FNC1) ROUTE 410 Ship to - Deliver to Global Location Number N3+N13 SHIP TO LOC 411 Bill to - Invoice to Global Location Number N3+N13 BILL TO 412 Purchased from Global Location Number N3+N13 SHIP FOR LOC 413 Ship for - Deliver for - Forward to Global Location Number N3+N13 LOC No 414 Identification of a physical location - Global Location Number N3+N13 LOC No 415 Global Location Number of the invoicing party N3+N13 PAY TO 420 Ship to - Deliver to postal code with ISO country co			N4+N3+N15	(FNC1)	AMOUNT
(***) code (variable measure trade item) 394n (***) Percentage discount of a coupon (***) N4+N4 (FNC1) PRCNT OFF 400 Customer's purchase order number (GSIN) N3+X30 (FNC1) ORDER NUMBER (GINC) 401 Global Identification Number for Consignment (GINC) N3+X30 (FNC1) GINC 402 Global Shipment Identification Number (GSIN) N3+N17 (FNC1) GSIN 403 Routing code N3+X30 (FNC1) ROUTE 410 Ship to - Deliver to Global Location Number N3+N13 SHIP TO LOC 411 Bill to - Invoice to Global Location Number N3+N13 BILL TO 412 Purchased from Global Location Number N3+N13 SHIP FOR LOC 413 Ship for - Deliver for - Forward to Global Location Number N3+N13 LOC No 414 Identification of a physical location - Global Location Number N3+N13 LOC No 415 Global Location Number of the invoicing party N3+N13 PAY TO 420 Ship to - Deliver to postal code within a single postal authority N3+N3-X20 (FNC1) SHIP TO POST Country code 421 Ship to - Deliver to postal code with ISO country code N3+N3+N12 (FNC1) ORIGIN 423 Country of initial processing N3+N3 (FNC1) C			N4+N15	(FNC1)	PRICE
(****) 400			N4+N3+N15	(FNC1)	PRICE
401 Global Identification Number for Consignment (GINC) 402 Global Shipment Identification Number (GSIN) 403 Routing code 410 Ship to - Deliver to Global Location Number 410 Ship to - Deliver to Global Location Number 411 Bill to - Invoice to Global Location Number 412 Purchased from Global Location Number 413 Ship for - Deliver for - Forward to Global Location Number 414 Identification of a physical location - Global Location Number 415 Global Location Number of the invoicing party 420 Ship to - Deliver to postal code within a single postal authority 421 Ship to - Deliver to postal code with ISO country code 422 Country of origin of a trade item 423 Country of processing 424 Country of processing 425 Country of disassembly 426 Country covering full process chain 427 N3+N3 428 (FNC1) COUNTRY - DISASSEMBLY 428 Country covering full process chain 429 Country covering full process chain 420 COUNTRY - COUNTRY - DISASSEMBLY		Percentage discount of a coupon	N4+N4	(FNC1)	PRCNT OFF
GINC 402 Global Shipment Identification Number (GSIN) N3+N17 (FNC1) GSIN 403 Routing code N3+X30 (FNC1) ROUTE 410 Ship to - Deliver to Global Location Number N3+N13 SHIP TO LOC 411 Bill to - Invoice to Global Location Number N3+N13 BILL TO 412 Purchased from Global Location Number N3+N13 PURCHASE FROM 413 Ship for - Deliver for - Forward to Global N3+N13 SHIP FOR LOC Location Number N3+N13 LOC No Location Number Location Number N3+N13 LOC No Location Number Location Number N3+N13 LOC No Ship to - Deliver to postal code within a single postal authority N3+N14 PAY TO SHIP TO POST Location Number N3+N3 LOC No Location Number N3+N3+N3+N3+N3 L	400	Customer's purchase order number	N3+X30	(FNC1)	ORDER NUMBER
403 Routing code 410 Ship to - Deliver to Global Location Number 410 N3+N13 SHIP TO LOC 411 Bill to - Invoice to Global Location Number 412 Purchased from Global Location Number 413 Ship for - Deliver for - Forward to Global 414 Location Number 415 Global Location Number 416 Ship to - Deliver to postal code within a single postal authority 420 Ship to - Deliver to postal code with ISO country code 421 Ship to - Deliver to postal code with ISO country of initial processing 422 Country of origin of a trade item 423 Country of disassembly 424 Country of disassembly 425 Country of disassembly 426 Country covering full process chain 427 N3+N3 428 (FNC1) COUNTRY - DISASSEMBLY 428 Country covering full process chain 429 Country covering full process chain 420 COUNTRY - DISASSEMBLY	401		N3+X30	(FNC1)	GINC
410 Ship to - Deliver to Global Location Number 411 Bill to - Invoice to Global Location Number 412 Purchased from Global Location Number 413 Ship for - Deliver for - Forward to Global Location Number 414 Identification of a physical location - Global Location Number 415 Global Location Number of the invoicing party 416 Ship to - Deliver to postal code within a single postal authority 417 Ship to - Deliver to postal code with ISO country code 418 Ship to - Deliver to postal code with ISO country of origin of a trade item 419 N3+N3+N3-N3-N3-N3-N3-N3-N3-N3-N3-N3-N3-N3-N3-N	402	Global Shipment Identification Number (GSIN)	N3+N17	(FNC1)	GSIN
411 Bill to - Invoice to Global Location Number 412 Purchased from Global Location Number 413 Ship for - Deliver for - Forward to Global Location Number 414 Identification of a physical location - Global Location Number 415 Global Location Number of the invoicing party 416 Ship to - Deliver to postal code within a single postal authority 417 Ship to - Deliver to postal code with ISO country code 418 Ship to - Deliver to postal code with ISO country of origin of a trade item 419 N3+N3+N3-N3-N3-N3-N3+N3-N3-N3-N3+N3-N3+N3-N3+N3-N3+N3-N3+N3-N3+N3-N3+N3-N3+N3-N3+N3-N3+N3-N3+N3-N3+N3+N3-N3+N3-N3+N3-N3+N3+N3+N3-N3+N3+N3+N3-N3+N3+N3+N3+N3+N3+N3+N3+N3+N3+N3+N3+N3+N	403	Routing code	N3+X30	(FNC1)	ROUTE
412 Purchased from Global Location Number 413 Ship for - Deliver for - Forward to Global Location Number 414 Identification of a physical location - Global Location Number 415 Global Location Number of the invoicing party 420 Ship to - Deliver to postal code within a single postal authority 421 Ship to - Deliver to postal code with ISO country code 422 Country of origin of a trade item 423 Country of initial processing 424 Country of processing 425 Country of disassembly 426 Country covering full process chain N3+N3 N3+N3 N3+N3 (FNC1) COUNTRY - DISASSEMBLY (FNC1) COUNTRY - DISASSEMBLY (FNC1) COUNTRY - DISASSEMBLY	410	Ship to - Deliver to Global Location Number	N3+N13		SHIP TO LOC
413 Ship for - Deliver for - Forward to Global Location Number 414 Identification of a physical location - Global Location Number 415 Global Location Number of the invoicing party 420 Ship to - Deliver to postal code within a single postal authority 421 Ship to - Deliver to postal code with ISO country code 422 Country of origin of a trade item 423 Country of initial processing 424 Country of processing 425 Country of disassembly 426 Country covering full process chain 427 Ship to - Deliver to postal code with ISO N3+N3+N (FNC1) COUNTRY - DISASSEMBLY 428 Country of disassembly 429 Country of disassembly 420 Country of disassembly 421 Country of disassembly 422 Country of disassembly 423 Country of disassembly 424 Country of disassembly 425 Country of disassembly 426 Country covering full process chain 427 N3+N3 428 (FNC1) COUNTRY - DISASSEMBLY	411	Bill to - Invoice to Global Location Number	N3+N13		BILL TO
Location Number 414	412	Purchased from Global Location Number	N3+N13		
Location Number 415 Global Location Number of the invoicing party 420 Ship to - Deliver to postal code within a single postal authority 421 Ship to - Deliver to postal code with ISO country code 422 Country of origin of a trade item 423 Country of initial processing 424 Country of processing 425 Country of disassembly 426 Country covering full process chain 427 N3+N3 428 PAY TO 429 (FNC1) SHIP TO POST 420 (FNC1) ORIGIN 421 COUNTRY - INITIAL PROCESS. 422 Country of processing 423 (FNC1) COUNTRY - PROCESS. 424 Country of processing 425 Country of disassembly 426 Country covering full process chain 427 N3+N3 428 (FNC1) COUNTRY - DISASSEMBLY	413		N3+N13		SHIP FOR LOC
420 Ship to - Deliver to postal code within a single postal authority 421 Ship to - Deliver to postal code with ISO country code 422 Country of origin of a trade item 423 Country of initial processing 424 Country of processing 425 Country of disassembly 426 Country covering full process chain N3+N3	414		N3+N13		LOC No
postal authority 421 Ship to - Deliver to postal code with ISO country code 422 Country of origin of a trade item 423 Country of initial processing 424 Country of processing 425 Country of disassembly 426 Country covering full process chain N3+N3 N3+N3+N12 N3+N3+N12 N3+N3+N12 N3+N3+N12 (FNC1) COUNTRY - PROCESS. (FNC1) COUNTRY - DISASSEMBLY	415	Global Location Number of the invoicing party	N3+N13		PAY TO
422 Country of origin of a trade item N3+N3 (FNC1) ORIGIN 423 Country of initial processing N3+N3+N12 (FNC1) COUNTRY - INITIAL PROCESS. 424 Country of processing N3+N3 (FNC1) COUNTRY - PROCESS. 425 Country of disassembly N3+N3+N12 (FNC1) COUNTRY - DISASSEMBLY 426 Country covering full process chain N3+N3 (FNC1) COUNTRY -	420		N3+X20	(FNC1)	SHIP TO POST
423 Country of initial processing N3+N3+N12 (FNC1) COUNTRY - INITIAL PROCESS. 424 Country of processing N3+N3 (FNC1) COUNTRY - PROCESS. 425 Country of disassembly N3+N3+N12 (FNC1) COUNTRY - DISASSEMBLY 426 Country covering full process chain N3+N3 (FNC1) COUNTRY -	421		N3+N3+X9	(FNC1)	SHIP TO POST
1NITIAL PROCESS. 424	422	Country of origin of a trade item	N3+N3	(FNC1)	ORIGIN
PROCESS. 425 Country of disassembly N3+N3+N 12 (FNC1) COUNTRY DISASSEMBLY 426 Country covering full process chain N3+N3 (FNC1) COUNTRY -	423	Country of initial processing	N3+N3+N12	(FNC1)	INITIAL
DISASSEMBLY 426	424	Country of processing	N3+N3	(FNC1)	
	425	Country of disassembly	N3+N3 <u>+N</u> 12	(FNC1)	
TOLE PROCESS	426	Country covering full process chain	N3+N3	(FNC1)	COUNTRY - FULL PROCESS
427 <u>Country subdivision Of origin</u> N3+X3 (FNC1) ORIGIN SUBDIVISION	427	Country subdivision Of origin	N3+X3	(FNC1)	
7001 <u>NATO Stock Number (NSN)</u> N4+N13 (FNC1) NSN	7001	NATO Stock Number (NSN)	N4+N13	(FNC1)	NSN

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AI	Data Content	Format (*)	FNC1 required	Data title
AI	Data Content	roilliat (·)	(****)	Data title
7002	UN/ECE meat carcasses and cuts classification	N4+X30	(FNC1)	MEAT CUT
7003	Expiration date and time	N4+N10	(FNC1)	EXPIRY TIME
7004	Active potency	N4+N4	(FNC1)	ACTIVE POTENCY
7005	Catch area	N4+X12	(FNC1)	CATCH AREA
7006	First freeze date	N4+N6	(FNC1)	FIRST FREEZE DATE
7007	<u>Harvest date</u>	N4+N612	(FNC1)	HARVEST DATE
7008	Species for fishery purposes	N4+X3	(FNC1)	AQUATIC SPECIES
7009	Fishing gear type	N4+X10	(FNC1)	FISHING GEAR TYPE
7010	<u>Production method</u>	N4+X2	(FNC1)	PROD METHOD
703s	Number of processor with ISO Country Code	N4+N3+X27	(FNC1)	PROCESSOR # s
710	National Healthcare Reimbursement Number (NHRN) – Germany PZN	N3+X20	(FNC1)	NHRN PZN
711	National Healthcare Reimbursement Number (NHRN) - France CIP	N3+X20	(FNC1)	NHRN CIP
712	National Healthcare Reimbursement Number (NHRN) - Spain CN	N3+X20	(FNC1)	NHRN CN
713	National Healthcare Reimbursement Number (NHRN) – Brasil DRN	N3+X20	(FNC1)	NHRN DRN
nnn (*****)	National Healthcare Reimbursement Number (NHRN) - Country "A" NHRN	N3+X20	(FNC1)	NHRN xxx
8001	Roll products (width, length, core diameter, direction, splices)	N4+N14	(FNC1)	DIMENSIONS
8002	Cellular mobile telephone identifier	N4+X20	(FNC1)	CMT No
8003	Global Returnable Asset Identifier (GRAI)	N4+N14+X16	(FNC1)	GRAI
8004	Global Individual Asset Identifier (GIAI)	N4+X30	(FNC1)	GIAI
8005	Price per unit of measure	N4+N6	(FNC1)	PRICE PER UNIT
8006	Identification of the components of a trade item	N4+N14+N2+N2	(FNC1)	GCTIN
8007	International Bank Account Number (IBAN)	N4+X34	(FNC1)	IBAN
8008	Date and time of production	N4+N8+N4	(FNC1)	PROD TIME
8010	Component / Part Identifier (CPID)	N4 + X30	(FNC1)	CPID
8011	Component / Part Identifier serial number (CPID SERIAL)	N4 + N12	(FNC1)	CPID SERIAL
8012	Software version	N4 + X20	(FNC1)	VERSION
8017	Global Service Relation Number to identify the relationship between an organisation offering services and the provider of services	N4+N18	(FNC1)	GSRN - PROVIDER
8018	Global Service Relation Number to identify the relationship between an organisation offering services and the recipient of services	N4+N18	(FNC1)	GSRN - RECIPIENT
8019	Service Relation Instance Number (SRIN)	N4+N10	(FNC1)	SRIN
8020	Payment slip reference number	N4+X25	(FNC1)	REF No



AI	Data Content	Format (*)	FNC1 required (****)	Data title
8110	Coupon code identification for use in North America	N4+X70	(FNC1)	-
8111	Loyalty points of a coupon	N4+N4	(FNC1)	POINTS
8112	Paperless coupon code identification for use in North America	N4+X70	(FNC1)	-
8200	Extended Packaging URL	N4+X70	(FNC1)	PRODUCT URL
90	Information mutually agreed between trading partners	N2+X30	(FNC1)	INTERNAL
91 to 99	Company internal information	N2+X30	(FNC1)	INTERNAL

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NOTES:

(*): The first position indicates the length (number of digits) of the GS1 Application Identifier. The following value refers to the format of the data content. The following convention is applied:

n implied decimal point position

- N numeric digit
- X any character in <u>Figure 7.11-1</u>
- N3 3 numeric digits, <u>predefined</u> length
- N..3 up to 3 numeric digits
- X..3 up to 3 characters in <u>Figure 7.11-1Figure 7.11-1</u>

(**): If only year and month are available, DD must be filled with two zeroes.

(***): The fourth digit of this GS1 Application Identifier indicates the number of decimal places (and in that way the implied decimal point position).

Example:

- 3100 Net weight in kg without a decimal point
- 3102 Net weight in kg with two decimal <u>places</u>points

(****): All GS1 Application Identifiers indicated with (FNC1) are defined as of variable length and SHALL be delimited unless this element string is the last one to be encoded in the symbol. The delimiter SHALL be a Function 1 Symbol Character in GS1-128 symbology, GS1 DataBar Expanded Versions and GS1 Composite symbology and SHOULD be a Function 1 Symbol Character in GS1 DataMatrix and GS1 QR Code symbology.

(*****) An example to illustrate future additional NHRNs. If additional NHRN AIs are required, a request for a new NHRN AI SHALL be made through the GS1 GSMP.

3.3 GS1 Application Identifiers starting with digit 0

3.3.1 Identification of a logistic unit (SSCC): AI (00)

The Application Identifier (00) indicates that the GS1 Application Identifier data field contains an SSCC (Serial Shipping Container Code). The SSCC is used to identify logistic units (see section 2.22.2).

The extension digit is used to increase the capacity of the serial reference within the SSCC. It is assigned by the company that constructs the SSCC. The extension digit ranges from 0-9.

The GS1 Company Prefix is allocated by GS1 Member Organisations to the company that allocates the SSCC – here the physical builder or the brand owner of the logistic unit (see section $\underline{1.4.4}$). It makes the SSCC unique worldwide but does not identify the origin of the unit.

The structure and content of the serial reference is at the discretion of owner of the GS1 Company Prefix to uniquely identify each logistic unit.

The check digit is explained in section $\underline{7.9}$. Its verification, which must be carried out in the application software, ensures that the number is correctly composed.

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Commented [CJ28]: WR16-410

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Figure 5.10.2.3-1. Example of GS1 DataBar Expanded Stacked barcode that uses concatenation



(01)90614141000015(3202)000150

Concatenation may not be desirable in all circumstances (e.g., GS1 Logistics Labels are often constructed using multiple rows of barcode), in such cases the barcode containing the additional attribute data encoded using GS1 Application Identifiers SHOULD be printed in close proximity to the barcode containing the GS1 identification key.

Figure 5.10.2.3-2. Example of mixed GS1 symbologies (GTIN encoded in UPC-E, Best before date in Composite)



5.10.3 Application Identifiers with implied decimal point positions

For all GS1 Application Identifiers with an implied decimal point position, the following rules apply:

For pre-defined length AIs

- For pre-defined length application identifiers with a data field length of 9 or less, the maximum number of decimal places is equal to the length of the AI data field as indicated in the format of the application identifier, minus 1. For example, for an AI with data format N8 the maximum number of decimal places is 7.
- For pre-defined length application identifiers with a length greater than 9, the maximum number of decimal places is 9. For example, for an AI with data format N12 the maximum number of decimal places is 9.

Example for pre-defined length AIs:

The data field format of AI (394n) is N4, so the maximum number of implied decimal places is 3.

Element string (3943)1020 specifies that the data field includes 3 decimal places, and therefore has an implied decimal point after the first digit: 1.020

For variable-length AIs

For variable-length application identifiers with encoded data of 9 digits or less, the maximum number of decimal places is equal to the length of the encoded data, minus 1. For example, for a data field containing 4 digits the maximum number of decimal places is 3. Commented [CJ64]: WR16-410 new section



• For variable-length application identifiers with encoded data of more than 9 digits, the maximum number of decimal places is 9. For example, for a data field containing 11 digits the maximum number of decimal places is 9.

Example for variable-length AIs:

The data field format of AI (392n) is N..15, so the maximum number of implied decimal places is 9. Element string (3929)300123456789 specifies a data field of 12 digits that includes 9 decimal places, and therefore has an implied decimal point after the third digit: 300.123456789.

Element string (3923)3000200 specifies a data field of 7 digits that includes 3 decimal places, and therefore has an implied decimal point after the fourth digit: 3000.200



Note: Consult the specific Application Identifier for additional restrictions that may apply to that Application Identifier.