

WR #	GSCN Name	Ratification Date
21-318	Encoding Geocoordinates to support ship-to/deliver-to	Apr 2022

Associated Work Request (WR) Number:

Background:

Large numbers of locations in the world do not have (useful/usable) addresses, but all locations in the world have unique and unambiguous geocoordinates. Industries such as freight transport, construction, agriculture, telecommunications and healthcare need to be able to identify locations that do not have an address.

To support location information, encoding geocoordinates as a data element for ship-to and deliver-to is an important characteristic to support delivery and delivery processes. Note that the **highlighted sections** indicate a proposed new section.

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Symbol size is determined by the amount of data and the number of rows and columns required encoding the data for the X-dimensions selected (see figures section 5.6.3.2).

Consult *GS1 symbol specification table 7*, section <u>5.12.3.7</u>, for minimum and maximum X-dimensions and other sizing requirements.

Durable labelling and marking:

For long distance scanning see section <u>5.12.3.13</u>, GS1 symbol specification table 13.

For short distance scanning see section <u>5.12.3.9</u>, *GS1* symbol specification table 9 (assets) or section <u>5.12.3.4</u>, *GS1* symbol specification table 4 (trade items).

Symbol placement

General principles on placement of barcodes are described in section $\underline{6}$.

The majority of uses for these symbols will be on very small items with curved surfaces such as vials, ampoules and very small bottles. For guidance in locating these symbols on curved surfaces, refer to section 6.2.

Unique application processing requirements for direct part marking

See section <u>7</u> and section <u>5.12.4.3</u>.

2.6.15 Encoding transport process information

Introduction

The global Transport & Logistics industry is experiencing exponential growth in freight volumes and becoming ever more open and competitive to support the growing needs. The increasing number of service providers (especially in Last Mile) and new entrants coming in from outside the traditional T&L environment causes challenges within the supply chain where parties involved in a supply chain at times don't even know each other, let alone have integrated systems. The fragmented nature of the industry, connectivity limitations (e.g., internet access) and the need for redundancy (e.g., absence of advance information exchange) drives the need for greater interoperability and the ability to capture transport process information via barcode(s). Information such as ship-to / deliver-to address and other delivery information is encoded directly on the logistic label to support first/last mile and sortation processes.

Note (informative): For further guidance and supporting standards see the <u>GS1 Encoding</u> <u>Transport Process Information Implementation Guideline</u>.

Application description

This application describes the creation of transport unit labels when using 2D barcodes to include necessary transport data on GS1 transport labels. The SSCC is the mandatory identifier required on all transport labels in a GS1-128 barcode and this application defines how it should be used together with optional attributes in 2D barcodes to support transport and logistic processes.

GS1 Key

Required

SSCC

The GS1 Application Identifier for the SSCC is AI (00), see section 3.2.

Rules

All SSCC rules described in section 4.4.

Attributes

Required

Not applicable



Optional

To provide optional transport process information, see figure below for a listing of GS1 Application Identifiers. For all the GS1 Application Identifiers that may be used with an SSCC in support of encoding transport process information and their format, see section <u>3.2</u>.

	Figure 2.6.15-1.	Application	Identifiers	used t	o supr	port the	transport	process
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AI	Data Content	Permits Non-Latin Characters				
420	Ship-to / Deliver-to postal code with a single postal authority					
4300	Ship-to / Deliver-to company name	Х				
4301	Ship-to / Deliver-to contact	Х				
4302	Ship-to / Deliver-to address line 1	Х				
4303	Ship-to / Deliver-to address line 2	Х				
4304	Ship-to / Deliver-to suburb	х				
4305	Ship-to / Deliver-to locality	х				
4306	Ship-to / Deliver-to region	х				
4307	Ship-to / Deliver-to country code					
4308	Ship-to / Deliver-to telephone number					
<u>4309</u>	Ship-to / Deliver-to GEO location					
4310	Return-to company name	х				
4311	Return-to contact	х				
4312	Return-to address line 1	х				
4313	Return-to address line 2	х				
4314	Return-to suburb	х				
4315	Return-to locality	Х				
4316	Return-to region	х				
4317	Return-to country code					
4318	Return-to postal code					
4319	Return-to telephone number					
4320	Service code description X					
4321	Dangerous goods flag					
4322	Authority to leave					
4323	Signature required flag					
4324	Not before delivery date time					
4325	Not after delivery date time					
4326	Release date					

To encode non-Latin characters within the alphanumeric value, use percent-encoding as defined within <u>*RFC 3986*</u>. A space character should be encoded as a single plus symbol, +.

Rules

All transport process information rules see section Z.

For general human readable interpretation rules see section 4.15.



422 Country of origin of a trade item; AI (422) N3+N3 (FNC1) ORIGIN 423 Country of initial processing; AI (423) N3+N3+N.12 (FNC1) COUNTRY - INITIAL PROCESS. 424 Country of increassing; AI (422) N3+N3 (FNC1) COUNTRY - PROCESS. 425 Country covering full process chain; AI (426) N3+N3 (FNC1) COUNTRY - PULL PROCESS 426 Country covering full process chain; AI (426) N3+N3 (FNC1) ORIGIN SUBDIVISION 427 Country subdivision of origin code for a trade N3+X.33 (FNC1) SHIP TO COMP 4300 Ship-to / Deliver-to Company, name; AI (4300) N4+X.35 (FNC1) SHIP TO COMP 4301 Ship-to / Deliver-to address line 1:AI (4302) N4+X.70 (FNC1) SHIP TO ADD1 4303 Ship-to / Deliver-to address line 1:AI (4302) N4+X.70 (FNC1) SHIP TO ADD2 4304 Ship-to / Deliver-to caddress line 2:AI (4302) N4+X.70 (FNC1) SHIP TO OUNTRY 4305 Ship-to / Deliver-to caddress line 2:AI (4302) N4+X.70 (FNC1) SHIP TO OUNTRY 4306<	AI	Data Content	Format ⁽¹⁾	FNC1 required ⁽⁴⁾	Data title
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4307 Ship-to / Deliver-to country code: AI (4307) N4+X2 (FNC1) SHIP TO COUNTRY 4308 Ship-to / Deliver-to Lelephone number: AI (4308) N4+X.30 (FNC1) SHIP TO PHONE 4309 Ship-to / Deliver-to GEO location: AI (4309) N4+X.30 (FNC1) SHIP TO PHONE 4310 Return-to contact name: AI (4310) N4+X.35 (FNC1) RTN TO COMP 4311 Return-to contact name: AI (4311) N4+X35 (FNC1) RTN TO ADD1 4312 Return-to address line 1: AI (4312) N4+X70 (FNC1) RTN TO ADD1 4313 Return-to address line 2: AI (4313) N4+X70 (FNC1) RTN TO ADD2 4314 Return-to locality: AI (4315) N4+X70 (FNC1) RTN TO CO 4315 Return-to country code: AI (4312) N4+X70 (FNC1) RTN TO COUNTRY 4316 Return-to country code: AI (4312) N4+X20 (FNC1) RTN TO POST 4319 Return-to celephone number: AI (4312) N4+X30 (FNC1) RTN TO POST 4320 Service code description: AI (4320) N4+X35 <	4306	Ship-to / Deliver-to region: AI (4306)	N4+X70	(FNC1)	SHIP TO REG
4308 Ship-to / Deliver-to telephone number: AI (4309) N4+X.30 (FNC1) SHIP TO PHONE 4309 Ship-to / Deliver-to GEO location: AI (4309) N4+N20 (ENC1) SHIP TO GEO 4310 Return-to company name: AI (4310) N4+X.35 (FNC1) RTN TO COMP 4311 Return-to address line 1: AI (4312) N4+X.70 (FNC1) RTN TO ADD1 4312 Return-to address line 2: AI (4313) N4+X.70 (FNC1) RTN TO ADD2 4314 Return-to address line 2: AI (4313) N4+X.70 (FNC1) RTN TO SUB 4315 Return-to locality: AI (4315) N4+X.70 (FNC1) RTN TO SUB 4316 Return-to locality: AI (4315) N4+X.70 (FNC1) RTN TO REG 4317 Return-to locality: AI (4315) N4+X.20 (FNC1) RTN TO POST 4318 Return-to telephone number: AI (4319) N4+X.30 (FNC1) RTN TO PHONE 4320 Service code description: AI (4320) N4+X.35 (FNC1) RTN TO PHONE 4321 Dangerous goods flag: AI (4321) N4+N1 (FNC1) SGREQUISE	4307	Ship-to / Deliver-to country code: AI (4307)	N4+X2	(FNC1)	SHIP TO COUNTRY
4309 Ship-to / Deliver-to GEO location: AI (4309) N4+N20 (ENC1) SHIP TO GEO 4310 Return-to company name: AI (4310) N4+X35 (FNC1) RTN TO COMP 4311 Return-to contact name: AI (4311) N4+X35 (FNC1) RTN TO NAME 4312 Return-to address line 1: AI (4312) N4+X70 (FNC1) RTN TO ADD1 4313 Return-to address line 2: AI (4313) N4+X70 (FNC1) RTN TO ADD2 4314 Return-to osuburb: AI (4315) N4+X70 (FNC1) RTN TO SUB 4315 Return-to cocality: AI (4315) N4+X70 (FNC1) RTN TO COUNTRY 4316 Return-to cocality: AI (4315) N4+X70 (FNC1) RTN TO POST 4317 Return-to code: AI (4318) N4+X20 (FNC1) RTN TO POST 4319 Return-to telephone number: AI (4319) N4+X30 (FNC1) RTN TO PHONE 4320 Service code description: AI (4320) N4+X30 (FNC1) DANGEROUS GOODS 4321 Dangerous goods flag: AI (4321) N4+N1 (FNC1) NATH LEAVE	4308	<u>Ship-to / Deliver-to telephone number: AI</u> (<u>4308)</u>	N4+X30	(FNC1)	SHIP TO PHONE
4310 Return-to company name: AI (4310) N4+X35 (FNC1) RTN TO COMP 4311 Return-to contact name: AI (4311) N4+X35 (FNC1) RTN TO NAME 4312 Return-to address line 1: AI (4312) N4+X70 (FNC1) RTN TO ADD1 4313 Return-to address line 2: AI (4312) N4+X70 (FNC1) RTN TO ADD2 4314 Return-to suburb: AI (4314) N4+X70 (FNC1) RTN TO SUB 4315 Return-to locality: AI (4315) N4+X70 (FNC1) RTN TO LOC 4316 Return-to region: AI (4315) N4+X70 (FNC1) RTN TO COUNTRY 4318 Return-to postal code: AI (4317) N4+X20 (FNC1) RTN TO POST 4319 Return-to postal code: AI (4318) N4+X30 (FNC1) RTN TO POST 4320 Service code description: AI (4320) N4+X35 (FNC1) RTN TO PHONE 4321 Dangerous goods flag: AI (4321) N4+N1 (FNC1) AUTH LEAVE 4321 Dangerous goods flag: AI (4322) N4+N1 (FNC1) NAGEROUS GOODS	<u>4309</u>	Ship-to / Deliver-to GEO location: AI (4309)	<u>N4+N20</u>	<u>(FNC1)</u>	SHIP TO GEO
4311 Return-to contact name: AI (4311) N4+X35 (FNC1) RTN TO NAME 4312 Return-to address line 1: AI (4312) N4+X70 (FNC1) RTN TO ADD1 4313 Return-to address line 2: AI (4312) N4+X70 (FNC1) RTN TO ADD2 4314 Return-to suburb: AI (4314) N4+X70 (FNC1) RTN TO SUB 4315 Return-to locality: AI (4315) N4+X70 (FNC1) RTN TO SUB 4315 Return-to locality: AI (4315) N4+X70 (FNC1) RTN TO COUNTRY 4318 Return-to region: AI (4316) N4+X20 (FNC1) RTN TO POST 4319 Return-to country code: AI (4312) N4+X20 (FNC1) RTN TO PHONE 4320 Service code description: AI (4320) N4+X35 (FNC1) RTN TO PHONE 4321 Dangerous goods flag: AI (4321) N4+N1 (FNC1) DANGEROUS GOODS 4322 Signature required flag: AI (4322) N4+N1 (FNC1) NUT LEAVE 4323 Signature required flag: AI (4323) N4+N1 (FNC1) NEF DEL DT	4310	Return-to company name: AI (4310)	N4+X35	(FNC1)	RTN TO COMP
4312 Return-to address line 1: AI (4312) N4+X.70 (FNC1) RTN TO ADD1 4313 Return-to address line 2: AI (4313) N4+X.70 (FNC1) RTN TO ADD2 4314 Return-to suburb: AI (4314) N4+X.70 (FNC1) RTN TO ADD2 4315 Return-to suburb: AI (4315) N4+X.70 (FNC1) RTN TO LOC 4316 Return-to region: AI (4315) N4+X.70 (FNC1) RTN TO COUNTRY 4317 Return-to country code: AI (4317) N4+X2 (FNC1) RTN TO POST 4318 Return-to postal code: AI (4318) N4+X.20 (FNC1) RTN TO POST 4319 Return-to telephone number: AI (4319) N4+X.30 (FNC1) RTN TO PHONE 4320 Service code description: AI (4320) N4+X.35 (FNC1) SRV DESCRIPTION 4321 Dangerous goods flag: AI (4322) N4+N1 (FNC1) DANGEROUS GOODS 4322 Authority to leave flag: AI (4323) N4+N1 (FNC1) SIG REQUIRED 4323 Signature required flag: AI (4324) N4+N10 (FNC1) NEE DEL DT	4311	Return-to contact name: AI (4311)	N4+X35	(FNC1)	RTN TO NAME
4313 Return-to address line 2: AI (4313) N4+X.70 (FNC1) RTN TO ADD2 4314 Return-to suburb: AI (4314) N4+X.70 (FNC1) RTN TO SUB 4315 Return-to suburb: AI (4315) N4+X.70 (FNC1) RTN TO LOC 4316 Return-to locality: AI (4315) N4+X.70 (FNC1) RTN TO LOC 4316 Return-to region: AI (4316) N4+X.70 (FNC1) RTN TO REG 4317 Return-to country code: AI (4317) N4+X2 (FNC1) RTN TO POST 4318 Return-to postal code: AI (4318) N4+X.20 (FNC1) RTN TO POST 4319 Return-to telephone number: AI (4319) N4+X.30 (FNC1) RTN TO PHONE 4320 Service code description: AI (4320) N4+X.35 (FNC1) DANGEROUS GOODS 4321 Dangerous goods flag: AI (4322) N4+N1 (FNC1) AUTH LEAVE 4323 Signature required flag: AI (4323) N4+N1 (FNC1) NEF DEL DT 4324 Not before delivery date/time: AI (4325) N4+N10 (FNC1) NAFT DEL DT	4312	Return-to address line 1: AI (4312)	N4+X70	(FNC1)	RTN TO ADD1
4314 Return-to suburb: AI (4314) N4+X70 (FNC1) RTN TO SUB 4315 Return-to locality: AI (4315) N4+X70 (FNC1) RTN TO LOC 4316 Return-to region: AI (4316) N4+X70 (FNC1) RTN TO REG 4317 Return-to country code: AI (4317) N4+X2 (FNC1) RTN TO COUNTRY 4318 Return-to postal code: AI (4318) N4+X.20 (FNC1) RTN TO POST 4319 Return-to telephone number: AI (4319) N4+X30 (FNC1) RTN TO PHONE 4320 Service code description: AI (4320) N4+X35 (FNC1) SRV DESCRIPTION 4321 Dangerous goods flag: AI (4321) N4+N1 (FNC1) DANGEROUS GOODS 4322 Authority to leave flag: AI (4322) N4+N1 (FNC1) AUTH LEAVE 4323 Signature required flag: AI (4323) N4+N1 (FNC1) NEF DEL DT 4324 Not before delivery date/time: AI (4325) N4+N10 (FNC1) NET DEL DT 4325 Not after delivery date/time: AI (4325) N4+N10 (FNC1) REL DATE	4313	Return-to address line 2: AI (4313)	N4+X70	(FNC1)	RTN TO ADD2
4315 Return-to locality: AI (4315) N4+X70 (FNC1) RTN TO LOC 4316 Return-to region: AI (4316) N4+X70 (FNC1) RTN TO REG 4317 Return-to country code: AI (4317) N4+X2 (FNC1) RTN TO COUNTRY 4318 Return-to postal code: AI (4317) N4+X2 (FNC1) RTN TO POST 4319 Return-to telephone number: AI (4319) N4+X30 (FNC1) RTN TO PHONE 4320 Service code description: AI (4320) N4+X35 (FNC1) DANGEROUS GOODS 4321 Dangerous goods flag: AI (4322) N4+N1 (FNC1) AUTH LEAVE 4323 Signature required flag: AI (4322) N4+N1 (FNC1) NEF DEL DT 4324 Not before delivery date/time: AI (4324) N4+N10 (FNC1) NEF DEL DT 4325 Not after delivery date/time: AI (4325) N4+N10 (FNC1) NEF DEL DT 4326 Release date: AI (4326) N4+N10 (FNC1) NEL DATE 7001 MATO Stock Number (NSN): AI (7001) N4+N13 (FNC1) NSN 70	4314	Return-to suburb: AI (4314)	N4+X70	(FNC1)	RTN TO SUB
4316 Return-to region: AI (4316) N4+X70 (FNC1) RTN TO REG 4317 Return-to country code: AI (4317) N4+X2 (FNC1) RTN TO COUNTRY 4318 Return-to postal code: AI (4318) N4+X20 (FNC1) RTN TO POST 4319 Return-to telephone number: AI (4319) N4+X30 (FNC1) RTN TO PHONE 4320 Service code description: AI (4320) N4+X35 (FNC1) SRV DESCRIPTION 4321 Dangerous goods flag: AI (4321) N4+N1 (FNC1) AUther LEAVE 4323 Signature required flag: AI (4322) N4+N1 (FNC1) AUTH LEAVE 4324 Not before delivery date/time: AI (4324) N4+N1 (FNC1) NBEF DEL DT 4325 Not after delivery date/time: AI (4325) N4+N10 (FNC1) NAFT DEL DT 4326 Release date: AI (4326) N4+N13 (FNC1) NSN 7001 NATO Stock Number (NSN): AI (7001) N4+N13 (FNC1) MEAT CUT 7003 Expiration date and time: AI (7003) N4+N10 (FNC1) ACTIVE POTENCY	4315	Return-to locality: AI (4315)	N4+X70	(FNC1)	RTN TO LOC
4317 Return-to country code: AI (4317) N4+X2 (FNC1) RTN TO COUNTRY 4318 Return-to postal code: AI (4318) N4+X.20 (FNC1) RTN TO POST 4319 Return-to telephone number: AI (4319) N4+X.30 (FNC1) RTN TO PHONE 4320 Service code description: AI (4320) N4+X.35 (FNC1) SRV DESCRIPTION 4321 Dangerous goods flag: AI (4321) N4+N1 (FNC1) DANGEROUS GOODS 4322 Authority to leave flag: AI (4321) N4+N1 (FNC1) AUTH LEAVE 4323 Signature required flag: AI (4322) N4+N1 (FNC1) SIG REQUIRED 4324 Not before delivery date/time: AI (4324) N4+N10 (FNC1) NBEF DEL DT 4325 Not after delivery date/time: AI (4325) N4+N10 (FNC1) REL DATE 7001 NATO Stock Number (NSN): AI (7001) N4+N13 (FNC1) MEAT CUT 7002 UV/ECE meat carcasses and cuts classification: AI (7002) N4+N10 (FNC1) EXPIRY TIME 7004 Active potency: AI (7004) N4+N.4 (FNC1) ACTI	4316	Return-to region: AI (4316)	N4+X70	(FNC1)	RTN TO REG
4318 Return-to postal code: AI (4318) N4+X20 (FNC1) RTN TO POST 4319 Return-to telephone number: AI (4319) N4+X30 (FNC1) RTN TO PHONE 4320 Service code description: AI (4320) N4+X35 (FNC1) SRV DESCRIPTION 4321 Dangerous goods flag: AI (4321) N4+N1 (FNC1) DANGEROUS GOODS 4322 Authority to leave flag: AI (4322) N4+N1 (FNC1) AUTH LEAVE 4323 Signature required flag: AI (4322) N4+N1 (FNC1) AUTH LEAVE 4324 Not before delivery date/time: AI (4324) N4+N10 (FNC1) NBEF DEL DT 4325 Not after delivery date/time: AI (4325) N4+N10 (FNC1) NAFT DEL DT 4326 Release date: AI (4326) N4+N10 (FNC1) NSN 7001 NATO Stock Number (NSN): AI (7001) N4+N13 (FNC1) NSN 7002 UN/ECE meat carcasses and cuts classification: AI (7002) N4+N10 (FNC1) EXPIRY TIME 7004 Active potency: AI (7004) N4+N4 (FNC1) ACTIVE POTENCY	4317	Return-to country code: AI (4317)	N4+X2	(FNC1)	RTN TO COUNTRY
4319 Return-to telephone number: AI (4319) N4+X30 (FNC1) RTN TO PHONE 4320 Service code description: AI (4320) N4+X35 (FNC1) SRV DESCRIPTION 4321 Dangerous goods flag: AI (4321) N4+N1 (FNC1) DANGEROUS GOODS 4322 Authority to leave flag: AI (4322) N4+N1 (FNC1) AUTH LEAVE 4323 Signature required flag: AI (4322) N4+N1 (FNC1) SIG REQUIRED 4324 Not before delivery date/time: AI (4324) N4+N10 (FNC1) NBEF DEL DT 4325 Not after delivery date/time: AI (4325) N4+N10 (FNC1) NAFT DEL DT 4326 Release date: AI (4326) N4+N6 (FNC1) REL DATE 7001 NATO Stock Number (NSN): AI (7001) N4+N13 (FNC1) NSN 7002 UN/ECE meat carcasses and cuts classification: AI (7002) N4+N10 (FNC1) EXPIRY TIME 7003 Expiration date and time: AI (7003) N4+N10 (FNC1) EXPIRY TIME 7004 Active potency: AI (7005) N4+N4 (FNC1) ACTIVE POTENCY <td>4318</td> <td>Return-to postal code: AI (4318)</td> <td>N4+X20</td> <td>(FNC1)</td> <td>RTN TO POST</td>	4318	Return-to postal code: AI (4318)	N4+X20	(FNC1)	RTN TO POST
4320 Service code description: AI (4320) N4+X35 (FNC1) SRV DESCRIPTION 4321 Dangerous goods flag: AI (4321) N4+N1 (FNC1) DANGEROUS GOODS 4322 Authority to leave flag: AI (4322) N4+N1 (FNC1) AUTH LEAVE 4323 Signature required flag: AI (4322) N4+N1 (FNC1) SIG REQUIRED 4324 Not before delivery date/time: AI (4324) N4+N10 (FNC1) NBEF DEL DT 4325 Not after delivery date/time: AI (4325) N4+N10 (FNC1) NAFT DEL DT 4326 Release date: AI (4326) N4+N6 (FNC1) REL DATE 7001 NATO Stock Number (NSN): AI (7001) N4+N13 (FNC1) NSN 7002 UN/ECE meat carcasses and cuts classification: AI (7002) N4+N10 (FNC1) EXPIRY TIME 7003 Expiration date and time: AI (7003) N4+N10 (FNC1) ACTIVE POTENCY 7004 Active potency: AI (7004) N4+N4 (FNC1) ACTIVE POTENCY 7005 Catch area: AI (7005) N4+N6 (FNC1) FIRST FREEZE DATE <td>4319</td> <td>Return-to telephone number: AI (4319)</td> <td>N4+X30</td> <td>(FNC1)</td> <td>RTN TO PHONE</td>	4319	Return-to telephone number: AI (4319)	N4+X30	(FNC1)	RTN TO PHONE
4321 Dangerous goods flag: AI (4321) N4+N1 (FNC1) DANGEROUS GOODS 4322 Authority to leave flag: AI (4322) N4+N1 (FNC1) AUTH LEAVE 4323 Signature required flag: AI (4322) N4+N1 (FNC1) SIG REQUIRED 4324 Not before delivery date/time: AI (4324) N4+N10 (FNC1) NBEF DEL DT 4325 Not after delivery date/time: AI (4325) N4+N10 (FNC1) NAFT DEL DT 4326 Release date: AI (4326) N4+N6 (FNC1) REL DATE 7001 NATO Stock Number (NSN): AI (7001) N4+N13 (FNC1) NSN 7002 UN/ECE meat carcasses and cuts classification: AI (7002) N4+N10 (FNC1) EXPIRY TIME 7003 Expiration date and time: AI (7003) N4+N10 (FNC1) ACTIVE POTENCY 7004 Active potency: AI (7005) N4+N.4 (FNC1) ACTIVE POTENCY 7005 Catch area: AI (7005) N4+N6 (FNC1) FIRST FREEZE DATE 7007 Harvest date: AI (7007) N4+N6[+N6]	4320	Service code description: AI (4320)	N4+X35	(FNC1)	SRV DESCRIPTION
4322 Authority to leave flag: AI (4322) N4+N1 (FNC1) AUTH LEAVE 4323 Signature required flag: AI (4323) N4+N1 (FNC1) SIG REQUIRED 4324 Not before delivery date/time: AI (4324) N4+N10 (FNC1) NBEF DEL DT 4325 Not after delivery date/time: AI (4325) N4+N10 (FNC1) NAFT DEL DT 4326 Release date: AI (4326) N4+N10 (FNC1) REL DATE 7001 NATO Stock Number (NSN): AI (7001) N4+N13 (FNC1) NSN 7002 UN/ECE meat carcasses and cuts classification: AI (7002) N4+N10 (FNC1) EXPIRY TIME 7003 Expiration date and time: AI (7003) N4+N10 (FNC1) EXPIRY TIME 7004 Active potency: AI (7004) N4+N4 (FNC1) ACTIVE POTENCY 7005 Catch area: AI (7005) N4+N6 (FNC1) FIRST FREEZE DATE 7007 Harvest date: AI (7005) N4+N6 (FNC1) HARVEST DATE 7007 Harvest date: AI (7007) N4+N6 (FNC1) AQUATIC SPECIES	4321	Dangerous goods flag: AI (4321)	N4+N1	(FNC1)	DANGEROUS GOODS
4323Signature required flag: AI (4323)N4+N1(FNC1)SIG REQUIRED4324Not before delivery date/time: AI (4324)N4+N10(FNC1)NBEF DEL DT4325Not after delivery date/time: AI (4325)N4+N10(FNC1)NAFT DEL DT4326Release date: AI (4326)N4+N6(FNC1)REL DATE7001NATO Stock Number (NSN): AI (7001)N4+N13(FNC1)NSN7002UN/ECE meat carcasses and cuts classification: AI (7002)N4+N10(FNC1)EXPIRY TIME7003Expiration date and time: AI (7003)N4+N10(FNC1)EXPIRY TIME7004Active potency: AI (7004)N4+N4(FNC1)ACTIVE POTENCY7005Catch area: AI (7005)N4+N6(FNC1)FIRST FREEZE DATE7006First freeze date: AI (7005)N4+N6(FNC1)HARVEST DATE7007Harvest date: AI (7007)N4+N6(FNC1)AQUATIC SPECIES7008Species for fishery purposes: AI (7008)N4+X3(FNC1)AQUATIC SPECIES	4322	Authority to leave flag: AI (4322)	N4+N1	(FNC1)	AUTH LEAVE
4324 Not before delivery date/time: AI (4324) N4+N10 (FNC1) NBEF DEL DT 4325 Not after delivery date/time: AI (4325) N4+N10 (FNC1) NAFT DEL DT 4326 Release date: AI (4326) N4+N10 (FNC1) REL DATE 7001 NATO Stock Number (NSN): AI (7001) N4+N13 (FNC1) NSN 7002 UN/ECE meat carcasses and cuts classification: AI (7002) N4+N10 (FNC1) EXPIRY TIME 7003 Expiration date and time: AI (7003) N4+N10 (FNC1) EXPIRY TIME 7004 Active potency: AI (7004) N4+N4 (FNC1) ACTIVE POTENCY 7005 Catch area: AI (7005) N4+N6 (FNC1) FIRST FREEZE DATE 7006 First freeze date: AI (7005) N4+N6 (FNC1) FIRST FREEZE DATE 7007 Harvest date: AI (7007) N4+N6 (FNC1) HARVEST DATE	4323	Signature required flag: AI (4323)	N4+N1	(FNC1)	SIG REQUIRED
4325 Not after delivery date/time: AI (4325) N4+N10 (FNC1) NAFT DEL DT 4326 Release date: AI (4326) N4+N6 (FNC1) REL DATE 7001 NATO Stock Number (NSN): AI (7001) N4+N13 (FNC1) NSN 7002 UN/ECE meat carcasses and cuts classification: AI (7002) N4+N13 (FNC1) MEAT CUT 7003 Expiration date and time: AI (7003) N4+N10 (FNC1) EXPIRY TIME 7004 Active potency: AI (7004) N4+N4 (FNC1) ACTIVE POTENCY 7005 Catch area: AI (7005) N4+N12 (FNC1) CATCH AREA 7006 First freeze date: AI (7005) N4+N6 (FNC1) FIRST FREEZE DATE 7007 Harvest date: AI (7007) N4+N6 (FNC1) HARVEST DATE	4324	Not before delivery date/time: AI (4324)	N4+N10	(FNC1)	NBEF DEL DT
4326 Release date: AI (4326) N4+N6 (FNC1) REL DATE 7001 NATO Stock Number (NSN): AI (7001) N4+N13 (FNC1) NSN 7002 UN/ECE meat carcasses and cuts classification: AI (7002) N4+X.30 (FNC1) MEAT CUT 7003 Expiration date and time: AI (7003) N4+N10 (FNC1) EXPIRY TIME 7004 Active potency: AI (7004) N4+N.4 (FNC1) ACTIVE POTENCY 7005 Catch area: AI (7005) N4+X.12 (FNC1) CATCH AREA 7006 First freeze date: AI (7005) N4+N6 (FNC1) FIRST FREEZE DATE 7007 Harvest date: AI (7007) N4+N6 (FNC1) HARVEST DATE	4325	Not after delivery date/time: AI (4325)	N4+N10	(FNC1)	NAFT DEL DT
7001 NATO Stock Number (NSN): AI (7001) N4+N13 (FNC1) NSN 7002 UN/ECE meat carcasses and cuts classification: AI (7002) N4+X30 (FNC1) MEAT CUT 7003 Expiration date and time: AI (7003) N4+N10 (FNC1) EXPIRY TIME 7004 Active potency: AI (7004) N4+N4 (FNC1) ACTIVE POTENCY 7005 Catch area: AI (7005) N4+X12 (FNC1) CATCH AREA 7006 First freeze date: AI (7005) N4+N6 (FNC1) FIRST FREEZE DATE 7007 Harvest date: AI (7007) N4+N6[+N6]12] _ (FNC1) HARVEST_DATE 7008 Species for fishery purposes: AI (7008) N4+X3 (FNC1) AQUATIC SPECIES	4326	Release date: AI (4326)	N4+N6	(FNC1)	REL DATE
7002 UN/ECE meat carcasses and cuts classification: AL (7002) N4+X30 (FNC1) MEAT CUT 7003 Expiration date and time: AI (7003) N4+N10 (FNC1) EXPIRY TIME 7004 Active potency: AI (7004) N4+N.4 (FNC1) ACTIVE POTENCY 7005 Catch area: AI (7005) N4+N.12 (FNC1) CATCH AREA 7006 First freeze date: AI (7006) N4+N6 (FNC1) FIRST FREEZE DATE 7007 Harvest date: AI (7007) N4+N6[+N6]12] _ (FNC1) HARVEST DATE 7008 Species for fishery purposes: AI (7008) N4+X3 (FNC1) AQUATIC SPECIES	7001	NATO Stock Number (NSN): AI (7001)	N4+N13	(FNC1)	NSN
7003 Expiration date and time: AI (7003) N4+N10 (FNC1) EXPIRY TIME 7004 Active potency: AI (7004) N4+N.4 (FNC1) ACTIVE POTENCY 7005 Catch area: AI (7005) N4+X12 (FNC1) CATCH AREA 7006 First freeze date: AI (7006) N4+N6 (FNC1) FIRST FREEZE DATE 7007 Harvest date: AI (7007) N4+N6[+N6]12 _(FNC1) HARVEST DATE 7008 Species for fishery purposes: AI (7008) N4+X3 (FNC1) AQUATIC SPECIES	7002	<u>UN/ECE meat carcasses and cuts classification:</u> <u>AI (7002)</u>	N4+X30	(FNC1)	MEAT CUT
7004 Active potency: AI (7004) N4+N4 (FNC1) ACTIVE POTENCY 7005 Catch area: AI (7005) N4+X12 (FNC1) CATCH AREA 7006 First freeze date: AI (7006) N4+N6 (FNC1) FIRST FREEZE DATE 7007 Harvest date: AI (7007) N4+N6[+N6]12	7003	Expiration date and time: AI (7003)	N4+N10	(FNC1)	EXPIRY TIME
7005 Catch area: AI (7005) N4+X12 (FNC1) CATCH AREA 7006 First freeze date: AI (7006) N4+N6 (FNC1) FIRST FREEZE DATE 7007 Harvest date: AI (7007) N4+N6[+N6]12 7008 Species for fishery purposes: AI (7008) N4+X3 (FNC1) AQUATIC SPECIES	7004	Active potency: AI (7004)	N4+N4	(FNC1)	ACTIVE POTENCY
7006 First freeze date: AI (7006) N4+N6 (FNC1) FIRST FREEZE DATE 7007 Harvest date: AI (7007) N4+N6[+N6]12 7008 Species for fishery purposes: AI (7008) N4+X3 (FNC1) AQUATIC SPECIES	7005	Catch area: AI (7005)	N4+X12	(FNC1)	CATCH AREA
7007 Harvest date: AI (7007) N4+N6[+N6]12 (FNC1) HARVEST DATE 7008 Species for fishery purposes: AI (7008) N4+X3 (FNC1) AQUATIC SPECIES	7006	First freeze date: AI (7006)	N4+N6	(FNC1)	FIRST FREEZE DATE
7008 Species for fishery purposes: AI (7008) N4+X3 (FNC1) AQUATIC SPECIES	7007	Harvest date: AI (7007)	N4+N6[+N6]12	(FNC1)	HARVEST DATE
	7008	Species for fishery purposes: AI (7008)	N4+X3	(FNC1)	AQUATIC SPECIES

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- Hour and Minutes: the number of the hour and minutes based on a local 24-hour time (e.g., 6:30 p.m. = 1830). If it is not necessary to specify a time, these fields must be filled with nines.
 - Note: When it is not necessary to specify the day (the day field is filled with two zeroes), the resultant data string SHALL be interpreted as the last day of the noted month including any adjustment for leap years (e.g., "130200" is "2013 February 28", "160200" is "2016 February 29", etc.).
 - Note: This element string can only specify dates ranging from 49 years in the past to 50 years in the future. Determination of the correct century is explained in section 7.12.

The data transmitted from the barcode reader means that the element string denoting a not after delivery data/time has been captured. As this element string is an attribute to a logistic unit it must be processed together with the SSCC of the unit to which it relates (see section <u>4.14</u> Data relationships). When indicating this element string in the non-HRI text section of a barcode label, the following data title SHOULD be used: **NAFT DEL DT**.

3.7.46 Release date: AI (4326)

The GS1 Application Identifier (4326) indicates that the data fields contain the release for the logistic unit. This date indicates that the logistic unit can be released for delivery after the indicated date.

Figure 3.7.46-1	. Format of the	element string
-----------------	-----------------	----------------

GS1 Application	Release date			
Identifier	YY	ММ	DD	
4326	N1 N2	N3 N4	N5 N6	

The structure is:

- Year: the tens and units of the year (e.g., 2007 = 07), which is mandatory
- Month: the number of the month (e.g., January = 01), which is mandatory
- Day: the number of the day of the relevant month (e.g., second day = 02), which is mandatory

The data transmitted from the barcode reader means that the element string denoting a release date has been captured. As this element string is an attribute to a logistic unit it must be processed together with the SSCC of the unit to which it relates (see section <u>4.14</u> Data relationships). When indicating this element string in the non-HRI text section of a barcode label, the following data title SHOULD be used: **REL DATE**.

3.7.47 Ship-to / Deliver-to GEO location: AI (4309)

The Application Identifier (4309) indicates that the GS1 Application Identifier data field contains a numeric string that can be converted to geocoordinates for the ship-to/deliver-to location.

The geocoordinate conversion algorithms are explained in section 7.13 and 7.14. The conversions, which must be carried out in the application software, can provide a latitude and longitude from a twenty-digit string associated with the ship-to/deliver-to location, see section 7.14. The process for converting a latitude and longitude into a twenty-digit string is shown in section 7.13.

Figure	3.7.	47-1	Format	of the	element string
			i orritate		Cicilicite Sering

GS1 Application Identifier	Ship-to / Deliver-to GEO location
	<pre><- digits for latitude conversion-></pre>
<u>4309</u>	<u>N1_N2_N3_N4_N5_N6_N7_N8_N9_N10_N11_N12_N13_N14_N15_N16_N17_N18_N19_N20</u>

The data transmitted from the barcode reader means that the element string associated with the ship-to/deliver-to GEO location has been captured. As this element string is an attribute of a logistic unit, it must be processed together with the SSCC of the logistic unit to which it relates (see section 4.14.2 Mandator association of element strings).

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When indicating this element string in the non-HRI text section of a barcode label, the following data title SHOULD be used: **SHIP TO GEO**

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If element string		Then mandatory associated element string	Rule
AI	Designation	AI	
392n	Applicable amount payable - single monetary unit	01 AND (30 XOR 31nn XOR 32nn XOR 35nn XOR 36nn *)	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.
393n	Applicable amount payable – with ISO currency code	01 AND (30 XOR 31nn XOR 32nn XOR 35nn XOR 36nn *)	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.
394n	Percentage of a coupon	255	The percentage of a coupon SHALL occur in combination with the Global Coupon Number.
395n	Amount payable per unit of measure single monetary area (variable measure trade item)	01 AND (30 XOR 31nn XOR 32nn XOR 35nn XOR 36nn *)	The applicable amount payable per unit of measure (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.
403	Routing code	00	The routing code SHALL occur in combination 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.
422	Country of origin	01 XOR 02 XOR 8006 XOR 8026 ***	The country of origin SHALL occur in combination with: a GTIN; or a GTIN of contained trade items; or an ITIP an ITIP of contained trade item pieces
423	Country of initial processing	01 XOR 02	The country of initial processing SHALL occur in combination with: • a GTIN; or • a GTIN of contained trade items.
424	Country of processing	01 XOR 02	The country of processing SHALL occur in combination with: • a GTIN; or • a GTIN of contained trade items.
425	Country of disassembly	01 XOR 02	The country of disassembly SHALL occur in combination with: • a GTIN; or • a GTIN of contained trade items.
426	Country of full processing	01 XOR 02	The country of full processing SHALL occur in combination with: a GTIN; or a GTIN of contained trade items.
427	Country subdivision of origin	(01 XOR 02) AND 422	The country subdivision of origin SHALL occur in combination with the country of origin <u>and</u> : • a GTIN; or • a GTIN of contained trade items.
430N	Ship-to / Deliver- to address GS1 Application Identifiers	00	Ship-to / Deliver-to address GS1 Application Identifiers SHALL occur in combination with an SSCC
4303	Ship-to / Deliver- to address line 2	4302 and 00	Ship-to / Deliver-to address line 2 SHALL occur in combination with line 1 of a ship-to address and an SSCC
<u>4309</u>	Ship-to / Deliver- to GEO location	<u>00</u>	Ship-to / Deliver-to GEO location SHALL occur in combination with an SSCC

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7.13 Conversion of latitude and longitude to twenty-digit string A latitude and longitude (both expressed in decimal degrees using the WGS84 coordinate reference system) can be converted into two 10-digit fields, X and Y.-(X,Y) as follows: X = 10,000,000 * (WGS84 latitude + 90) Y = 10,000,000 * ((WGS84 longitude + 360) mod 360) X and Y SHALL be integer values. Note: The WGS84 latitude and longitude SHOULD be expressed with no more than 7 decimal places.

If the calculation of either X or Y results in fewer than 10 digits then the value must be left-padded with '0' to reach a total of 10 digits per value.

For GS1 AIs encoding geocoordinates, X and Y are concatenated into a single string of twenty digits. For example, Machu Picchu Antarctica Base's latitude (-62.0914152°) and longitude (-58.4702029°) would be converted to 0279085848 and 3015297971, resulting in a final data element of 02790858483015297971.

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7.14 Conversion of twenty-digit string to latitude and longitude

A twenty digit geocode contains two ten-digit fields, X and Y, that can be converted to latitude and longitude values in the *WGS84* coordinate reference system (expressed in decimal degrees) using the following calculations:

• X, the first 10 digits can be converted to WGS84 latitude using the following calculation:

- □ WGS84 latitude = ((X/10,000,000) 90)°
- Y, the second group of 10 digits can be converted to WGS84 longitude using the following calculation:
 - □ WGS84 longitude = ((((Y/10,000,000)+180) mod 360) 180)°

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