

# GS1 US EDI Recommendations for FSMA 204 Critical Tracking Events

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# **Document Summary**

| Document Item        | Current Value   |  |  |  |  |
|----------------------|---|--|--|--|--|
| Document Title       | EDI Recommendations for FSMA 204 Critical Tracking Events   |  |  |  |  |
| Date Last Modified   | March 12, 2024  |  |  |  |  |
| Document Description | This document supplements the Retail Grocery and Foodservice Application of GS1 System of Standards to Support FSMA 204 Guideline and provides guidance on the implementation of the X12 EDI 856 Ship Notice/Manifest (ASN) message to help meet the Shipping Critical Tracking Event (CTE) requirements of FSMA 204. |  |  |  |  |



# 1 Introduction

In July 2020, the FDA announced its 10-year plan to improve food safety, <u>The New Era of Smarter Food Safety</u>. This is a framework to "respond more rapidly to outbreaks, address new business models, reduce contamination of food, and foster the development of food safety cultures." It encourages the use of technology, improved traceability, and establishes a food safety culture throughout all members of the supply chain. For more information go to: <a href="https://www.fda.gov/food/new-era-smarter-food-safety">https://www.fda.gov/food/new-era-smarter-food-safety</a>.

On November 21, 2022, the United States Food and Drug Administration (FDA) published a Final Rule titled, Requirements for Additional Traceability Records for Certain Foods, which is a key component of the FDA's New Era of Smarter Food Safety Blueprint and implements Section 204(d) of the FDA Food Safety Modernization Act (FSMA), which was signed into law in 2011. This rule is commonly referred to as "FSMA 204". Throughout the remainder of this document, 'Final Rule' and FSMA 204 will be used interchangeably as shorthand for referring to this regulation.

This document supplements the Retail Grocery and Foodservice Application of GS1 System of Standards to Support FSMA 204 Guideline and provides guidance on the implementation of the X12 EDI 856 Ship Notice/Manifest (ASN)\* message to help meet the Shipping Critical Tracking Event (CTE) requirements of FSMA 204. It seeks to increase consistency and ease of implementation by explaining the data elements and codes and providing real-world examples.



**Note:** As with all GS1 Standards and solutions, this guideline is voluntary, not mandatory. It should be noted that the use of the words "must" and "require" throughout this document relate exclusively to technical recommendations for the proper application of the standards to support the integrity of your implementation.

Each company is individually responsible for meeting all statutory and/or regulatory requirements for their company and their products. Consult with your company's legal counsel or compliance team (regulatory or quality) for more specific information about current statutory and regulatory requirements applicable to your company and products. Nothing herein should be construed as constituting or implying an agreement among foodservice and/or retail grocery companies to adopt or implement GS1 Standards.

Nothing herein should be construed as constituting or implying an agreement regarding any company's prices, output, markets, or dealings with customers and suppliers. Nothing herein is inconsistent with the proposition that each participating company must and will exercise its independent business judgment on all standards adoption.

#### 1.1 Who Will Use This Document

Business users and EDI experts who are implementing EDI X12 856 ASN to support FSMA 204 or who need to update existing EDI 856 implementations to support the FSMA 204 requirements.

#### 1.2 Scope

This document provides guidance on how to include the additional data required by FSMA 204 into existing EDI implementation. The document will not explain the ASN and its general use but instead focuses only on the additions needed to support FSMA 204. The additional data recommended for FSMA 204 is optional and no existing capabilities of GS1 US guidelines will be overwritten.

#### 1.3 Prerequisites

This document discusses the ASN changes needed to support the FSMA 204. The GS1 US FSMA 204 Guideline and its requirements and implementation requirements are covered in other GS1 US and or U.S. FDA documents. EDI has been in use for over 25 years and the general functionality and requirements to exchange EDI documents are covered in other GS1 US and X12 documents. It is



understood that the reader or user of this document is familiar with the content of these other guides. These additional resources are recommended to familiarize yourself before reading this document.

- 7050 UCS EDI Implementation Guidelines
  - a. To access the full ASN for Foodservice Guideline, you need to be a GS1 US Member company (such as when you license a Company prefix). Please follow the below steps to access the guideline. If you have questions on how to log in you can contact our member support team at <a href="mailto:info@qs1us.org">info@qs1us.org</a>.
    - i. Login to myGS1 US
    - ii. Click on myGS1 US in the top menu
    - iii. Go to Member-Only EDI Documents
    - iv. Select Uniform Communication Standard (UCS) EDI
      - Navigate to UCS Implementation Guideline 007050
      - Go to 2.2 Transaction Sets
      - Go to 856FT UCS v7050 2024.pdf
- VICS EDI 856 Guideline
  - b. These guides can be found on <a href="http://www.gs1us.org">http://www.gs1us.org</a> and/or <a href="http://www.gs1.org">www.gs1.org</a>

<sup>\*</sup> Source: All references to ASN or EDI 856 refer to X12's Supply Chain Transaction Standards. For more information refer to  $\underline{x12.org/products/transaction-sets}$ 



# 2 How to Use EDI Recommendations

This EDI implementation recommendation is to be used in conjunction with the EDI 7050 856 EDI implementation guideline and the GS1 US Retail Grocery Food Service Guideline for the Application of the GS1 Systems of Standards to Support FSMA 204.

Over the years the GS1 US supported industries have implemented a vast number of 856 ASN versions spanning from 4010 all the way to 8010. In order to enable swift and cost-effective implementation of the FSMA 204 requirements for shipping, GS1 US verified that all data elements and codes used in this implementation recommendation are available in EDI versions 4010 - 8010.

This guideline outlines how to enable EDI capabilities to support FSMA 204 in EDI X12 versions prior to version 7050. All previous versions do have the capabilities in the X12 standard, but the capabilities are not outlined in GS1 US implementation guidelines for those versions. Any user who utilizes a version lower than 7050 and follows the recommendations in this guideline is still considered to use the EDI as agreed by the industry.



# 3 Shipping CTE and the Advance Ship Notice

# 3.1 Traceability Lot Code = GTIN+Batch/Lot

The Shipping CTE requires a handful of Key Data Elements (KDEs) to be linked to the Traceability Lot and for this lot to be recorded as the Traceability Lot Code (TLC). For the TLC KDE, this guidance recommends recording both the GTIN and the batch/lot number of the food.

The GTIN/Lot information is submitted on the Pack level.

| <u>Ref</u> | <u>Id</u>   | <u>Element Name</u>                                    | <u>Req</u>   | <u>Type</u> | Min/Max       | <u>Usage</u>               |  |  |  |
|------------|---|--|--|-------------|---------------|----------------------------|--|--|--|
| LIN02      | 235   | Product/Service ID Qualifier                           | М  | ID          | 2/2           | Must use                   |  |  |  |
|            |   | <b>Description:</b> Code identifying the type/so (234) | <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service I (234) |             |               |                            |  |  |  |
|            |   | Code List Summary                                      | Code List Summary  |             |               |                            |  |  |  |
|            |   | Code Name UK GTIN-14                                   |  |             |               |                            |  |  |  |
|            | <b>Description:</b> A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items. |  |  |             |               |                            |  |  |  |
| LIN03      | 234   | Product/Service ID                                     | М  | AN          | 1/80          | Must use                   |  |  |  |
|            |   | <b>Description:</b> Identifying number for a pro       | duct or  | service     |               |                            |  |  |  |
| LIN04      | 235   | Product/Service ID Qualifier                           | М  | ID          | 2/2           | Must use                   |  |  |  |
|            |   | <b>Description:</b> Code identifying the type/so (234) | urce of  | the descri  | iptive number | used in Product/Service ID |  |  |  |
|            |   | Code List Summary                                      |  |             |               |                            |  |  |  |
|            |   | Code Name LT Lot Number                                |  |             |               |                            |  |  |  |
| LIN05      | 234   | Product/Service ID                                     | М  | AN          | 1/80          | Must use                   |  |  |  |
|            |   | <b>Description:</b> Identifying number for a pro       | duct or  | service     |               |                            |  |  |  |



**Example:** LIN\*01\*UK\*10614141000002\*LT\*ABCDE12345~

This pack is identified by a GTIN-14 (10614141000002) and lot # ABCDE12345

## 3.2 Quantity and Unit of Measure of the Food

For the Quantity and Unit of Measure KDEs, this guidance recommends utilizing an SN1 – Item Detail (Shipment) segment within the Pack Hierarchical Level.

The quantity is submitted on the pack level. For each different lot the quantity of packs associated with the lot number will need to be identified.

SN102 382 **Number of Units Shipped** M R 1/10 Must use



**Description:** Numeric value of units shipped in manufacturer's shipping units for a

line item or transaction set

SN103 355 Unit or Basis for Measurement Code M ID 2/2 Must use

**Description:** Code specifying the units in which a value is being expressed, or the manner in which a measurement has been taken

**Code List Summary** 

Code Name

CA Case

PL Pallet/Unit Load



**Example:** SN1\*25\*CA~ This pack has 25 cases.

#### 3.3 Product Description of the Food

The product description is traditionally omitted or short in ASNs since the Global Trade Item Number (GTIN®) is used to identify the product. The complete product description can then be retrieved from Global Data Synchronization Network $^{\text{TM}}$  (GDSN®), GS1 US Data Hub® | Product, or any other master data system using the GTIN. The GS1 US FSMA 204 Guideline maps all the Product Description KDEs to GDSN or Global Data Model fields. For more information, please see section 3.4.3 Master Data of this document.

# 3.4 Location Description of Immediate Subsequent Recipient (Other Than Transporter)

For the Location Description of Immediate Subsequent Recipient KDE, this guidance recommends recording a GLN (Global Location Number) of the Ship-To location. This GLN can then link to the attributes exchanged following the GLN Data Model which fulfills the Location Description KDEs requirement.

The location of the recipient, usually called Ship To location in EDI is specified on the shipment level.

| Ref  | <u>Id</u> | <u>Element Name</u>  | Req       | <u>Type</u>  | Min/Max            | <u>Usage</u>   |
|------|-----------|--|-----------|--------------|--------------------|----------------|
| N101 | 98        | Entity Identifier Code                                     | М         | ID           | 2/3                | Must use       |
|      |           | <b>Description:</b> Code identifying an organiz individual | ational e | entity, a ph | ysical location, p | roperty, or an |
|      |           | Code List Summary  |           |              |                    |                |
|      |           | <u>Code</u> <u>Name</u>                                    |           |              |                    |                |
|      |           | ST Ship To   |           |              |                    |                |
| N102 | 93        | Name   | Χ         | AN           | 1/60               | Used           |
|      |           | <b>Description:</b> Free-form name                         |           |              |                    |                |
| N103 | 66        | Identification Code Qualifier                              | X         | ID           | 1/2                | Used           |

**Description:** Code specifying the system/method of code structure used for Identification Code (67)

**Code List Summary** 



Code Name

UL Global Location Number (GLN)

**Description:** A globally unique 13-digit code used for the identification of any physical or legal location that needs to be uniquely identified for use in the supply chain. A GS1

identification key.

N104 67 **Identification Code** X AN 2/80 Used

Description: Code identifying a party or other code



Example: N1\*ST\*Ewing DC\*UL\*0840002011112~

This was shipped to Ewing DC (GLN=0840002011112)

# 3.5 Location Description for the Location From Which You Shipped the Food

For the Location Description for the Location From Which You Shipped the Food KDE, this guidance recommends recording a GLN of the Ship-From location. Like with the previous KDE, this GLN can then link to the attributes exchanged following the GLN Data Model which fulfills the Location Description KDE requirement. In an ASN, this is expressed as an N1 – Party Identification segment. This segment can be expressed more than once within a hierarchical level which enables both a Ship-to and Ship-from to be expressed.

The location of the shipper, usually called Ship From location on EDI is specified on the shipment level.

| <u>Ref</u> | <u>Id</u> | <u>Eleme</u>   | <u>nt Name</u>   | Req      | <u>Type</u> | Min/Ma<br><u>x</u> | <u>Usage</u>           |     |  |  |
|------------|-----------|--|--|----------|-------------|--------------------|------------------------|-----|--|--|
| N101       | 98        | Entity   | Identifier Code  | М        | ID          | 2/3                | Must use               |     |  |  |
|            |           | <b>Description:</b> Code identifying an organizational entity, a physical location, property, or an individual |  |          |             |                    |                        |     |  |  |
|            |           | Code L   | Code List Summary  |          |             |                    |                        |     |  |  |
|            |           | <u>Code</u><br>SF  | <u>Name</u><br>Ship From   |          |             |                    |                        |     |  |  |
| N102       | 93        | Name   |  | Х        | AN          | 1/60               | Used                   |     |  |  |
|            |           | Descri   | ption: Free-form name  |          |             |                    |                        |     |  |  |
| N103       | 66        | Identif  | fication Code Qualifier  | Х        | ID          | 1/2                | Used                   |     |  |  |
|            |           | Descri <sub>l</sub><br>(67)  | ption: Code specifying the system  | ı/method | d of code s | structure used     | for Identification Cod | е   |  |  |
|            |           | Code L   | ist Summary  |          |             |                    |                        |     |  |  |
|            |           | <u>Code</u><br>UL  | Name<br>Global Location Number (GLN)   |          |             |                    |                        |     |  |  |
|            |           | 1  | <b>cription:</b> A globally unique 13-dig location that needs to be uniquely identification key. |          |             |                    | , , ,                  | gal |  |  |
| N104       | 67        | Identif  | ication Code   | Х        | AN          | 2/80               | Used                   |     |  |  |
|            |           | Descri   | ption: Code identifying a party or   | other co | de          |                    |                        |     |  |  |





Example: N1\*SF\*GS1 US\*UL\*0614141000005~

This was shipped from GS1 US (GLN=0614141000005)

# 3.6 Date the Food Was Shipped

For the Date the Food Was Shipped KDE, this guidance recommends recording a date in the Date/Time Reference (DTM) segment. The Final Rule only requires the date that food was shipped within this CTE, however, companies can express time within this segment if necessary.

This is identified by the shipped date on Shipment level in the DTM segment. The code 011 is used to qualify that the date provided is the ship date of the food.

| <u>Ref</u> | <u>Id</u> | Elemer                 | nt Name  | Req                   | <u>Type</u> | Min/Max          | <u>Usage</u>      |  |  |  |
|------------|-----------|------------------------|--|-----------------------|-------------|------------------|-------------------|--|--|--|
| DTM01      | 374       | Date/T                 | ime Qualifier  | М                     | ID          | 3/3              | Must use          |  |  |  |
|            |           | Descrip                | Description: Code specifying type of date or time, or both date and time   |                       |             |                  |                   |  |  |  |
|            |           | CodeLi                 | st Summary (Total Codes: 1332,   | Included              | d: 3)       |                  |                   |  |  |  |
|            |           | Code L                 | Code List Summary  |                       |             |                  |                   |  |  |  |
|            |           | Code                   | Name   |                       |             |                  |                   |  |  |  |
|            |           | 011                    | Shipped  |                       |             |                  |                   |  |  |  |
| DTM02      | 373       | Date                   |  | X                     | DT          | 8/8              | Used              |  |  |  |
|            |           | <b>Descrip</b> calenda | otion: Date expressed as CCYYMM r year   | DD wher               | re CC repre | esents the first | two digits of the |  |  |  |
| DTM03      | 337       | Time                   |  | Χ                     | TM          | 4/8              | Used              |  |  |  |
|            |           | or HHMI<br>DD = de     | <b>ption:</b> Time expressed in 24-hour MSSDD, where $H = hours (00-23)$ ecimal seconds; decimal seconds as $(0-9)$ and $DD = hundredths (00-1)$ | , M = mi<br>are expre | nutes (00   | -59), S = integ  |                   |  |  |  |



**Example:** DTM\*011\*20220818~

Shipment departed on August 18, 2022

#### 3.7 Location Description for the TLC Source or the TLC Source Reference

When a company ships a food from the FTL, they are expected to not only record the places it ships from and is received but also the TLC Source. Here is the definition from the Final Rule:

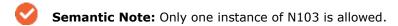
TLC Source means the place where a food was assigned a traceability lot code.

For the TLC Source Reference KDE, this guide illustrates how a GLN can be recorded alongside each TLC expressed within an ASN. Like with the previous KDE, this GLN can then link to the attributes exchanged following the GLN Data Model which fulfills the Location Description KDEs requirement.

Like the Shipping Location and Immediate Subsequent Recipient location KDEs above, this KDE can utilize the N1 – Party Identification segment. Unlike those other KDEs, this "N1" segment is expressed within the Pack Hierarchical Level to distinguish that it only applies to the items in that instance of the hierarchical level instead of to the shipment, overall.



| <u><b>Ref</b></u><br>N101 | <u>Id</u><br>98 | <u>Element Name</u><br>Entity Identifier Code                          | Reg<br>M  | <u>Type</u><br>ID | Min/Max<br>2/3    | <u>Usage</u><br>Must use |
|---------------------------|-----------------|--|-----------|-------------------|-------------------|--------------------------|
|                           |                 | <b>Description:</b> Code identifying an organization individual        | ational e | entity, a pł      | nysical location, | property, or an          |
|                           |                 | Code List Summary <u>Code</u> <u>Name</u> MP Manufacturing Plant       |           |                   |                   |                          |
| N102                      | 93              | Name   | Χ         | AN                | 1/60              | Used                     |
|                           |                 | <b>Description:</b> Free-form name                                     |           |                   |                   |                          |
| N103                      | 66              | Identification Code Qualifier  | Χ         | ID                | 1/2               | Used                     |
|                           |                 | <b>Description:</b> Code specifying the system (67)                    | /method   | l of code s       | tructure used fo  | or Identification Code   |
|                           |                 | Code List Summary  |           |                   |                   |                          |
|                           |                 | CodeNameULGlobal Location Number (GLN)URUniform Resource Locator (URL) |           |                   |                   |                          |
| N104                      | 67              | Identification Code  | Х         | AN                | 2/80              | Used                     |
|                           |                 | <b>Description:</b> Code identifying a party or o                      | other co  | de                |                   |                          |



Example: DTM\*011\*20220818~

Shipment departed on August 18, 2022

# 3.8 Shipment Reference Document Type

For the Shipment Reference Document Type KDE, this guidance recommends utilizing the ST – Transaction Set Header which is a mandatory component of the EDI document and identifies the document that follows as an ASN.

| <u>Ref</u> | <u>Id</u> | Element Name                                       | Req    | <u>Type</u> | Min/Max | <u>Usage</u> |
|------------|-----------|--|--------|-------------|---------|--------------|
| ST01       | 143       | Transaction Set Identifier Code                    | М      | ID          | 3/3     | Mustuse      |
|            |           | <b>Description:</b> Code identifying a Transaction | on Set |             |         |              |
|            |           | Code List Summary                                  |        |             |         |              |
|            |           | <u>Code</u> <u>Name</u>                            |        |             |         |              |
|            |           | 856 Ship Notice/Manifest                           |        |             |         |              |
| ST02       | 329       | Transaction Set Control Number                     | М      | AN          | 4/9     | Must use     |

**Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

**Example:** ST\*856\*0001~



This EDI document is an 856 and the first of the functional group

## 3.9 Shipment Reference Document Identifier

For the Shipment Reference Document Identifier KDE, this guidance recommends utilizing the Beginning Segment for Ship Notice (BSN) which is a mandatory component of the ASN. The "BSN" contains these elements in the following data format:

BSN02 396 **Shipment Identification** 

AN 2/30

Must use

**Description:** A unique control number assigned by the original shipper to identify a specific shipment

**Code List Summary** 

<u>Code</u> <u>Name</u>

00 Original

BSN03 373 **Date** 

M DT 8/8

Must use

**Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

BSN04 337 **Time** 

M TM

4/8 N

Must use

**Description:** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D

= tenths (0-9) and DD = hundredths (00-99)

**Code List Summary** 

<u>Code</u> <u>Name</u>

0008 Shipment, Order, Tare, Pack

Example: BSN\*00\*SI39383092\*20220818\*0600\*0008~

1st submission of shipment #SI39383092 on Aug 18, 2022, at 6 am, contains Shipment/Order/Tare/Pack hierarchical levels are used



# 4 KDEs mapped to ASN Hierarchy

#### 4.1 KDEs at Header Level

This section will look at the KDEs that need to be included on the header level of the ASN. Based on the regulation the shipment identification is the date of capture and the time of capture are transmitted in the header section of the ASN.

#### 4.1.1 Shipment Reference Document Type

| <u>Ref</u> | <u>Id</u> | Element Name                                       | Req   | <u>Type</u> | Min/Max | <u>Usage</u> |
|------------|-----------|--|-------|-------------|---------|--------------|
| ST01       | 143       | Transaction Set Identifier Code                    | М     | ID          | 3/3     | Must use     |
|            |           | <b>Description:</b> Code identifying a Transaction | n Set |             |         |              |
|            |           | Code List Summary                                  |       |             |         |              |
|            |           | Code Name  |       |             |         |              |
|            |           | 856 Ship Notice/Manifest                           |       |             |         |              |
| ST02       | 329       | Transaction Set Control Number                     | М     | AN          | 4/9     | Must use     |
|            |           |  |       |             |         |              |

**Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

#### 4.1.2 Activity Number

| <u>Ref</u> | <u>Id</u> | Element Name  | Reg     | <u>Type</u> | Min/Max         | <u>Usage</u>        |
|------------|-----------|---|---------|-------------|-----------------|---------------------|
| BSN02      | 396       | Shipment Identification                                   | М       | AN          | 2/30            | Must use            |
|            |           | <b>Description:</b> A unique control number assistingment | gned by | the orig    | inal shipper to | identify a specific |

#### 4.1.3 Date of Data Capture

| Ref   | <u>Id</u> | Element Name | Req | <u>Type</u> | Min/Max | <u>Usage</u> |
|-------|-----------|--------------|-----|-------------|---------|--------------|
| Ref   | Id        | Element Name | Req | Type        | Min/Max | Usage        |
| BSN03 | 373       | Date         | М   | DT          | 8/8     | Must use     |

**Description:** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

#### 4.1.4 Time of Data Capture

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | Req | <u>Type</u> | Min/Max | <u>Usage</u> |
|------------|-----------|---------------------|-----|-------------|---------|--------------|
| BSN04      | 337       | Time                | М   | TM          | 4/8     | Must use     |

**Description:** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSSD, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)



DTM03

337

Time

## 4.1.5 Date the Food Was Shipped

| <u>Ref</u> | <u>Id</u> | Element Name   | Req   | <u>Type</u> | Min/Max | <u>Usage</u> |  |  |  |  |  |  |
|------------|-----------|--|---|-------------|---------|--------------|--|--|--|--|--|--|
| DTM01      | 374       | Date/Time Qualifier  | М   | ID          | 3/3     | Must use     |  |  |  |  |  |  |
|            |           | <b>Description:</b> Code specifying type of date   | <b>Description:</b> Code specifying type of date or time, or both date and time |             |         |              |  |  |  |  |  |  |
|            |           | CodeList Summary (Total Codes: 1332, Included: 3)  |   |             |         |              |  |  |  |  |  |  |
|            |           | Code List Summary  |   |             |         |              |  |  |  |  |  |  |
|            |           | <u>Code</u> <u>Name</u>  |   |             |         |              |  |  |  |  |  |  |
|            |           | 011 Shipped  |   |             |         |              |  |  |  |  |  |  |
| DTM02      | 373       | Date   | Х   | DT          | 8/8     | Used         |  |  |  |  |  |  |
|            |           | <b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year |   |             |         |              |  |  |  |  |  |  |

**Description:** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSSD, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

TM

4/8

Used

Χ



# 4.2 KDEs at Shipment Level

This section looks at the KDEs that need to be included in the shipment level of the ASN. The number of pallets in the shipment will be shared in the TD1 segments. The quantity plus the unit of measure will need to be provided. PLT for pallet should be used.

# 4.2.1 Location Description for the Location From Which You Shipped the Food

|            |           | •   |            |             | • • •            |                        |
|------------|-----------|---|------------|-------------|------------------|------------------------|
| <u>Ref</u> | <u>Id</u> | Element Name  | Req        | <u>Type</u> | Min/Max          | <u>Usage</u>           |
| N101       | 98        | Entity Identifier Code  | М          | ID          | 2/3              | Must use               |
|            |           |   |            |             |                  |                        |
|            |           | <b>Description:</b> Code identifying an organiz   | ational er | ntity, a pl | nysical location | , property, or an      |
|            |           | individual  |            |             |                  |                        |
|            |           | Code List Summary   |            |             |                  |                        |
|            |           | <u>Code</u> <u>Name</u>   |            |             |                  |                        |
|            |           | SF Ship From  |            |             |                  |                        |
|            |           | ·   |            |             |                  |                        |
| N102       | 93        | Name  | Х          | AN          | 1/60             | Used                   |
|            |           | <b>Description:</b> Free-form name  |            |             |                  |                        |
| N103       | 66        | Identification Code Qualifier   | Χ          | ID          | 1/2              | Used                   |
|            |           | <b>Description:</b> Code specifying the system (67)   | /method    | of code s   | tructure used f  | or Identification Code |
|            |           | Code List Summary   |            |             |                  |                        |
|            |           | <u>Code</u> <u>Name</u>   |            |             |                  |                        |
|            |           | UL Global Location Number (GLN)   |            |             |                  |                        |
|            |           | <b>Description:</b> A globally unique 13 legal location that needs to be uniquentification key. |            |             |                  | , , ,                  |
| N104       | 67        | Identification Code   | X          | AN          | 2/80             | Used                   |
|            |           | <b>Description:</b> Code identifying a party or   | other cod  | le          |                  |                        |

## 4.2.2 Location Description of Immediate Subsequent Recipient

| <u>Ref</u> | <u>Id</u> | Element Name  | Req        | <u>Type</u> | Min/Max          | <u>Usage</u>            |   |
|------------|-----------|---|------------|-------------|------------------|-------------------------|---|
| N101       | 98        | Entity Identifier Code                                      | М          | ID          | 2/3              | Must use                |   |
|            |           | <b>Description:</b> Code identifying an organiza individual | ational er | ntity, a pl | hysical location | , property, or an       |   |
|            |           | Code List Summary   |            |             |                  |                         |   |
|            |           | <u>Code</u> <u>Name</u>                                     |            |             |                  |                         |   |
|            |           | ST Ship To  |            |             |                  |                         |   |
| N102       | 93        | Name  | Χ          | AN          | 1/60             | Used                    |   |
|            |           | Description: Free-form name                                 |            |             |                  |                         |   |
| N103       | 66        | Identification Code Qualifier                               | Х          | ID          | 1/2              | Used                    |   |
|            |           | <b>Description:</b> Code specifying the system/ (67)        | method     | of code s   | tructure used t  | for Identification Code | 9 |



**Code List Summary** 

Code Name

UL Global Location Number (GLN)

**Description:** A globally unique 13-digit code used for the identification of any physical or legal location that needs to be uniquely identified for use in the supply chain. A GS1

identification key.

N104 67 **Identification Code** X AN 2/.80 Used

**Description:** Code identifying a party or other code



#### 4.3 KDEs at Pack Level

This section will look at the KDEs that need to be included on the pack level of the ASN.

#### 4.3.1 GTIN

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u>                                   | <u>Req</u>   | <u>Type</u> | Min/Max | <u>Usage</u> |  |  |  |
|------------|-----------|---|--|-------------|---------|--------------|--|--|--|
| LIN02      | 235       | Product/Service ID Qualifier                          | М  | ID          | 2/2     | Must use     |  |  |  |
|            |           | <b>Description:</b> Code identifying the type/s (234) | <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service I (234)   |             |         |              |  |  |  |
|            |           | Code List Summary                                     |  |             |         |              |  |  |  |
|            |           | <u>Code</u> <u>Name</u>                               |  |             |         |              |  |  |  |
|            |           | UK GTIN-14  |  |             |         |              |  |  |  |
|            |           | •   | <b>Description:</b> A 14-digit GS1 Identification Key composed of an Indicator Digit, GS1 Company Prefix, Item Reference, and Check Digit used to identify trade items |             |         |              |  |  |  |
| LIN03      | 234       | Product/Service ID                                    | М  | AN          | 1/80    | Must use     |  |  |  |

**Description:** Identifying number for a product or service

## 4.3.2 Batch/Lot Number (TLC)

| <u>Ref</u> | <u>Id</u> | Element Name   | Req     | <u>Type</u> | Min/Max | <u>Usage</u> |  |  |  |
|------------|-----------|--|---------|-------------|---------|--------------|--|--|--|
| LIN04      | 235       | Product/Service ID Qualifier   | М       | ID          | 2/2     | Must use     |  |  |  |
|            |           | <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service (234) |         |             |         |              |  |  |  |
|            |           | Code List Summary  |         |             |         |              |  |  |  |
|            |           | <u>Code</u> <u>Name</u>  |         |             |         |              |  |  |  |
|            |           | LT Lot Number  |         |             |         |              |  |  |  |
| LIN05      | 234       | Product/Service ID   | М       | AN          | 1/80    | Must use     |  |  |  |
|            |           | <b>Description:</b> Identifying number for a prod  | duct or | service     |         |              |  |  |  |

# 4.3.3 Unit of Measure (UoM)

| <u>Ref</u> | <u>Id</u> | Element Name   | <u>Req</u> | <u>Type</u> | Min/Max | <u>Usage</u> |
|------------|-----------|----------------|------------|-------------|---------|--------------|
| TD101      | 103       | Packaging Code | 0          | AN          | 3/5     | Used         |

**Description:** Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required

**Code List Summary** 

<u>Code</u> <u>Name</u> PLT Pallet



# 4.3.4 Traceability Lot Code Source Reference

| <u>Ref</u><br>N101 | <u>Id</u><br>98 | Element Name Entity Identifier Code                        | Req<br>M  | <u>Type</u><br>ID | <u>Min/Max</u><br>2/3 | <u>Usage</u><br>Must use |  |  |  |  |  |
|--------------------|-----------------|--|---|-------------------|-----------------------|--------------------------|--|--|--|--|--|
|                    |                 | <b>Description:</b> Code identifying an orga an individual | <b>ription:</b> Code identifying an organizational entity, a physical location, property, o<br>dividual |                   |                       |                          |  |  |  |  |  |
|                    |                 | Code List Summary  Code Name  MP Manufacturing Plant       |   |                   |                       |                          |  |  |  |  |  |
| N102               | 93              | Name   | Χ   | AN                | 1/60                  | Used                     |  |  |  |  |  |
|                    |                 | <b>Description:</b> Free-form name                         |   |                   |                       |                          |  |  |  |  |  |
| N103               | 66              | <b>Identification Code Qualifier</b>                       | Χ   | ID                | 1/2                   | Used                     |  |  |  |  |  |

**Description:** Code specifying the system/method of code structure used for

Identification Code (67)

**Code List Summary** 

<u>Code</u> <u>Name</u>

UL Global Location Number (GLN)
UR Uniform Resource Locator (URL)



# **5** KDE to EDI Mapping Table

|   |                  |                       |         | FS       | SMA 204 EDI Cap                            | ability Check                            |   | Does Ex<br>Original Sta |                        |                        |                        |
|---|------------------|-----------------------|---------|----------|--|--|---|-------------------------|------------------------|------------------------|------------------------|
| KDE   | EDI<br>Level     | Hierarchical<br>Level | Segment | Position | Value/Code                                 | GS1 FSMA<br>204<br>Document<br>Reference | User Note   | GS1<br>US<br>705<br>0   | X12<br>EDI<br>501<br>0 | X12<br>EDI<br>403<br>0 | X12<br>EDI<br>401<br>0 |
| Shipment<br>Reference<br>Document Type  | Header<br>1/0100 | Header                | ST      | ST01     | 856  | 48                                       | For the Shipment Reference Document Type KDE, this guidance recommends utilizing the ST - Transaction Set Header which is a mandatory component of the EDI document and identifies the document that follows as an ASN.   | Y                       | Y                      | Y                      | Y                      |
| Activity Number   | Header<br>1/0200 | Header                | BSN     | BSN02    | *Shipment<br>Identification<br>of the ASN* | 4.5.9                                    | The BSN02 element contains the Shipment Ide<br>ntification of the ASN. The Shipment Identifica<br>tion is a unique control number, assigned by t<br>he original shipper/sender to identify the ship<br>ment.  | Υ                       | Y                      | Υ                      | Υ                      |
| Date/Time of data capture   | Header<br>1/0200 | Header                | BSN     | BSN03    | *Date*                                     | 4.5.9                                    | The BSN02 element contains the Shipment Ide ntification of the ASN. The Shipment Identification is a unique control number, assigned by the original shipper/sender to identify the shipment.   | Y                       | Υ                      | Y                      | Υ                      |
| Date/Time of data capture   | Header<br>1/0200 | Header                | BSN     | BSN04    | *Time*                                     | 4.5.9                                    | The BSN02 element contains the Shipment Ide<br>ntification of the ASN. The Shipment Identifica<br>tion is a unique control number, assigned by t<br>he original shipper/sender to identify the ship<br>ment.  | Y                       | Y                      | Y                      | Y                      |
| Date the Food Was<br>Shipped  | Header<br>1/2000 | Header                | DTM     | DTM01    | 11   | 4.5.6                                    | For the Date the Food Was Shipped KDE, this guidance recommends recording a date in the DTM – Date/Time Reference segment. The Final Rule only requires the date that food was shipped within this CTE, however, companies can express time within this segment if necessary.   | Y                       | Y                      | Y                      | Y                      |
| Location<br>Description for the<br>Location From<br>Which You Shipped<br>the Food | Detail<br>2/2200 | Shipment              | N1      | N102     | SF - *Ship<br>From location<br>name*       | 4.5.5                                    | For the Location Description for the Location From Which You Shipped the Food KDE, this guidance recommends recording a GLN of the Ship-From location. Like with the previous KDE, this GLN can then link to the attributes exchanged following the GLN Data Model which fulfills the Location Description KDEs requirement. In an ASN, this is expressed as an N1 – Party Identification segment. This segment can be expressed more than once within a hierarchical level which enables both a Ship-to and Ship-from to be expressed. | Y                       | Y                      | Y                      | Y                      |
| Location Description of Immediate Subsequent Recipient                            | Detail<br>2/2200 | Shipment              | N1      | N102     | ST - *Ship To<br>location<br>name*         | 4.5.4                                    | For the Location Description of Immediate<br>Subsequent Recipient KDE, this guidance<br>recommends recording a GLN of the Ship-To<br>location. This GLN can then link to the<br>attributes exchanged following the GLN Data<br>Model which fulfills the Location Description<br>KDEs requirement.   | Υ                       | Y                      | Υ                      | Y                      |



| GTIN   | Detail<br>2/0200 | Pack | LIN | LIN03 | UK - *GTIN-<br>14*            | 4.5.1   | The Shipping CTE requires a handful of KDEs to be linked to the Traceability Lot and for this lot to be recorded as the TLC. For the TLC KDE, this guidance recommends recording both the GTIN and the batch/lot number of the food.   | Y | Y | Y | Y |
|--|------------------|------|-----|-------|-------------------------------|---------|--|---|---|---|---|
| Batch/ Lot Number<br>(TLC)                   | Detail<br>2/0200 | Pack | LIN | LIN04 | LT - *Lot<br>Number*          | 4.5.1   | Code LT may only be used if the Pack level is c omprised of one (1) batch/lot. If there is more than one lot/batch, the Batch HL shall be used . Multiple Pack loops can be utilized if there ar e multiple Lot Codes on the Packaging when ut ilizing SOTP.   | Υ | Υ | Υ | Y |
| Unit of Measure<br>(UOM)                     | Detail<br>2/0300 | Pack | SN1 | SN102 | PL -<br>*Pallet/Unit<br>Load* | 4.5.2   | For the Quantity and Unit of Measure KDEs,<br>this guidance recommends utilizing an SN1 -<br>Item Detail (Shipment) segment within the<br>Pack Hierarchical Level  | Υ | Υ | Υ | Υ |
|  | Detail<br>2/0300 | Pack | SN1 | SN102 | CA - *Case*                   | 4.5.2   | For the Quantity and Unit of Measure KDEs,<br>this guidance recommends utilizing an SN1 -<br>Item Detail (Shipment) segment within the<br>Pack Hierarchical Level  | Υ | Υ | Y | Y |
| Traceability Lot<br>Code Source              | Detail<br>2/2200 | Pack | N1  | N101  | MP                            | 4.5.7   | The TLC is to be used when a company ships a food from the FTL. Companies are expected to not only record the places it ships from and is received but also the TL Source.   | Υ | Υ | Υ | Y |
|  | Detail<br>2/2200 | Pack | N1  | N102  | *Name*                        | 4.5.7   | The TLC Source is to be used when a company ships a food from the FTL. Companies are exp ected to not only record the places it ships fro m and is received but also the TLC Source.   | Y | Y | Υ | Υ |
|  |                  |      |     |       |                               |         |  |   |   |   |   |
|  | Detail<br>2/2200 | Pack | N1  | N103  | UL                            | 4.5.7   | The TLC Source is to be used when a company ships a food from the FTL. Companies are exp ected to not only record the places it ships fro m and is received but also the TLC Source.   | Υ | Y | Y | Y |
|  | Detail<br>2/2200 | Pack | N1  | N104  | *TLC Source*                  | 4.5.7   | The TLC Source is to be used when a company ships a food from the FTL. Companies are exp ected to not only record the places it ships fro m and is received but also the TLC Source.   | Y | Y | Y | Y |
| Traceability Lot<br>Code Source<br>Reference | Detail<br>2/2200 | Pack | N1  | N101  | MP                            | 4.5.7.1 | In response to the proposed rule, the FDA received comments expressing concern that passing forward a TLC Source would expose commercially sensitive information. In the Final Rule, the FDA proposed an alternative method for providing access to the FDA with the Location Description of the TLC Source. The definition also mentions utilizing a web address for enabling the look up of the Location Description for the TLC source. This could be enabled through the use of web URL      | Y | Y | Y | Y |
|  | Detail<br>2/2200 | Pack | N1  | N102  | *Name*                        | 4.5.7.1 | In response to the proposed rule, the FDA received comments expressing concern that passing forward a TLC Source would expose commercially sensitive information. In the Final Rule, the FDA proposed an alternative method for providing access to the FDA with the Location Description of the TLC Source. The definition also mentions utilizing a web address for enabling the look up of the Location Description for the TLC source. This could be enabled through the use of GS1 web URL. | Υ | Υ | Y | Y |
|  | Detail<br>2/2200 | Pack | N1  | N103  | UR                            | 4.5.7.1 | In response to the proposed rule, the FDA received comments expressing concern that  | Υ | Υ | Υ | Υ |



|                  |      |    |      |                           |         | passing forward a TLC Source would expose commercially sensitive information. In the Final Rule, the FDA proposed an alternative method for providing access to the FDA with the Location Description of the TLC Source. The definition also mentions utilizing a web address for enabling the look up of the Location Description for the TLC source. This could be enabled through the use of Web URL.   |   |   |   |   |
|------------------|------|----|------|---------------------------|---------|--|---|---|---|---|
| Detail<br>2/2200 | Pack | N1 | N104 | *TLC Source<br>Reference* | 4.5.7.1 | In response to the proposed rule, the FDA received comments expressing concern that passing forward a TLC Source would expose commercially sensitive information. In the Final Rule, the FDA proposed an alternative method for providing access to the FDA with the Location Description of the TLC Source. The definition also mentions utilizing a web address for enabling the look up of the Location Description for the TLC source. This could be enabled through the use of web URL. | Y | Y | Y | Y |

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# **6** Example ASN

The examples provided here are for illustration purpose only for a detailed description of the ASN, its segments, data elements and codes please refer to the ASN message guideline.

#### 6.1 Same Trade Item



SSCC 00123456789012345678

In this example we have 1 pallet which consists of 4 boxes of the same item, same lot and same traceability lot code source referenced by a GLN are the same for the respective trade items.

Same Trade Items



GLN 0012345900020 GTIN 10012345000017 LOT ABCDE12345



GLN 0012345900020 GTIN 10012345000017 LOT ABCDE12345



GLN 70012345900020 GTIN 10012345000017 LOT ABCDE12345



GLN 0012345900020 GTIN 10012345000017 LOT ABCDE12345

| ST* <b>856</b> *0001~                                     | Shipment Reference Document Type                                      |
|---|---|
| BSN*00* <b>SI39383092*20220818*0600</b> *0008~            | Activity Number, Date/Time of data capture                            |
| HL*1**S~  |   |
| TD1*PLT*4****G*1200*LB*1000*CF~                           |   |
| TD5**2*ACLU*U**CL~  |   |
| TD3*CN~   |   |
| REF*BM*BOM83492093~                                       |   |
| DTM* <b>011</b> *2 <b>0190813</b> *0530~                  | Date the Food Was Shipped   |
| N1* <b>SF</b> *GS1 US* <b>UL</b> * <b>0012345900006</b> ~ | Location Description for the Location From Which You Shipped the Food |
| REF*IT*123467891234*                                      |   |
| N1*SU*Supplier/Manufacturer name*UL*0012345900006~        |   |
| N3*300 Charles Ewing Blvd~                                |   |
| N4*Ewing*NJ*08628*US~                                     |   |
| REF*IT*ABC1234*   |   |
| N1*ST*Ewing DC*UL*0012345900013~                          | Location Description of Immediate Subsequent Recipient                |
| N3*300 Charles Ewing Blvd~                                |   |
| N4*Ewing*NJ*08628*US~                                     |   |
| N1*CA*FastTrucks~   |   |
| REF*IT*DEF5678*   |   |



| Lucianida   | 1   |
|---|---|
| HL*2*1*0~   |   |
| SN1**100*CA~  |   |
| PRF*PO123456~   |   |
| TD1*****G*2500*LB~  |   |
| REF*IL*N2994~   |   |
| HL*3*2*T*~  |   |
| SN1*1*PL~   |   |
| MAN*GM*00123456789012345678~  |   |
| PAL*4~  |   |
| HL*4*3*P~   |   |
| LIN* <b>01</b> *UK* <b>10012345000017</b> *LT*ABCDE12345~             | Traceability Lot Code (GTIN + Batch/Lot)                            |
| SN1*4* <b>CA</b> ~  | Quantity and Unit of Measure of the Food                            |
| PO4*N*25*LB~  |   |
| N1* <b>MP</b> *Plant 4 - Harvest Salad Co.* <b>UL</b> *0012345900020~ | Location Description for the Traceability Lot Code Source Reference |
| CTT*6~  |   |
| SE*35*0001~   |   |

#### **6.2** Mixed Trade Items



In this example we have 1 pallet which consists of 4 boxes but 2 trade items which 2 boxes per trade item. The lot and the traceability lot code source reference using a GLN for one box and a web URL for the other.

Mixed Trade Items



GLN 0012345900020 GTIN 10012345000017 LOT ABCDE12345



GLN 0012345900020 GTIN 10012345000017 LOT ABCDE12345



GLN 0012345900020 GTIN 10012345000031 LOT XX44C5FEB345



GLN 0012345900020 GTIN 10012345000031 LOT XX44C5FEB345

| ST* <b>856</b> *0001~                          | Shipment Reference Document Type           |
|--|--|
| BSN*00* <b>SI39383092*20220818*0600</b> *0008~ | Activity Number, Date/Time of data capture |
| HL*1**S~                                       |  |
| TD1*PLT*4****G*1200*LB*1000*CF~                |  |
| TD5**2*ACLU*U**CL~                             |  |
| TD3*CN~  |  |
| REF*BM*BOM83492093~                            |  |



| DTM* <b>011*20190813</b> *0530~                                       | Date the Food Was Shipped   |
|---|---|
| N1*SF*GS1 US*UL*0012345900006~  | Location Description for the Location From Which You Shipped the Food     |
| REF*IT*123467891234*  |   |
| N1*SU*Supplier/Manufacturer name*UL* <b>0012345900006</b> ~           |   |
| N3*300 Charles Ewing Blvd~  |   |
| N4*Ewing*NJ*08628*US~   |   |
| REF*IT*ABC1234*   |   |
| N1*ST*Ewing DC*UL*0012345900013~                                      | Location Description of Immediate Subsequent Recipient                    |
| N3*300 Charles Ewing Blvd~  |   |
| N4*Ewing*NJ*08628*US~   |   |
| N1*CA*FastTrucks~   |   |
| REF*IT*DEF5678*   |   |
| HL*2*1*0~   |   |
| SN1**100*CA~  |   |
| PRF*PO123456~   |   |
| TD1*****G*2500*LB~  |   |
| REF*IL*N2994~   |   |
| HL*3*2*T*~  |   |
| SN1*1*PL~   |   |
| MAN*GM*00123456789012345678~  |   |
| PAL*4~  |   |
| HL*4*3*P~   |   |
| LIN* <b>01</b> *UK* <b>10012345000017</b> *LT*ABCDE12345~             | Traceability Lot Code (GTIN + Batch/Lot) Item 1                           |
| SN1*2* <b>CA</b> ~  | Quantity and Unit of Measure of the Food                                  |
| PO4*N*25*LB~  |   |
| N1* <b>MP</b> *Plant 4 - Harvest Salad Co.* <b>UL</b> *0012345900020~ | Location Description for the Traceability Lot Code Source Reference (GLN) |
| HL*5*3*P~   |   |
| LIN* <b>01</b> *UK* <b>10012345000031</b> *LT*XX44C5FEB345~           | Traceability Lot Code (GTIN + Batch/Lot) Item 2                           |
| SN1*2* <b>CA</b> ~  | Quantity and Unit of Measure of the Food                                  |
| PO4*N*25*LB~  |   |
| N1*MP*Brand Name*UR* https://id.lucy.com/416/3007143000~              | Location Description for the Traceability Lot Code Source Reference (URL) |
| CTT*6~  |   |
| SE*40*0001~   |   |



#### 6.3 Mixed Trade Items and Lots



SSCC 00123456789012345678

Mixed Trade Items & Lots

In this example we have 1 pallet which consists of 4 boxes but 2 trade items. Trade item one has 1 box, trade item two has 3 boxes. 2 boxes of trade item 2 are the same lot and 1 box of trade item two comes from a different lot. For the 2 boxes from the same lot, we are using the GLN for one box and the web URI for the other box to reference the traceability lot code source and for the single box we are using a complete address as traceability lot code source.







GLN 0012345900020 GTW 10012345000091 LOT XX44CSFEB345



GLN 0012545900020 GTIN 10012345000031 LOT XX44C5FEB345



GLN ADDRESS INSTEAD GTIN 10012345000031 LOT XX44CSIAN300

| ST* <b>856</b> *0001~                                     | Shipment Reference Document Type                                      |
|---|---|
| BSN*00* <b>SI39383092*20220818*0600</b> *0008~            | Activity Number, Date/Time of data capture                            |
| HL*1**S~  |   |
| TD1*PLT*4****G*1200*LB*1000*CF~                           |   |
| TD5**2*ACLU*U**CL~  |   |
| TD3*CN~   |   |
| REF*BM*BOM83492093~                                       |   |
| DTM* <b>011*20190813</b> *0530~                           | Date the Food Was Shipped   |
| N1* <b>SF</b> *GS1 US* <b>UL</b> * <b>0012345900006</b> ~ | Location Description for the Location From Which You Shipped the Food |
| REF*IT*123467891234*                                      |   |
| N1*SU*Supplier/Manufacturer name*UL*0012345900006~        |   |
| N3*300 Charles Ewing Blvd~                                |   |
| N4*Ewing*NJ*08628*US~                                     |   |
| REF*IT*ABC1234*   |   |
| N1*ST*Ewing DC*UL*0012345900013~                          | Location Description of Immediate Subsequent Recipient                |
| N3*300 Charles Ewing Blvd~                                |   |
| N4*Ewing*NJ*08628*US~                                     |   |
| N1*CA*FastTrucks~   |   |
| REF*IT*DEF5678*   |   |
| HL*2*1*O~   |   |
| SN1**100*CA~  |   |
| PRF*PO123456~   |   |
| TD1*****G*2500*LB~  |   |
| REF*IL*N2994~   |   |
| HL*3*2*T*~  |   |
| SN1*1*PL~   |   |



| MAN*GM*00123456789012345678~   |   |
|--|---|
| PAL*4~   |   |
| HL*4*3*P~  |   |
| LIN* <b>01</b> *UK* <b>10012345000017</b> *LT*ABCDE12345~                  | Traceability Lot Code (GTIN + Batch/Lot) Item 1                                   |
| SN1*25*CA~   | Quantity and Unit of Measure of the Food  |
| PO4*N*25*LB~   |   |
| N1* <b>MP</b> *Plant 4 - Harvest Salad Co.* <b>UL</b> *0012345900020~      | Location Description for the Traceability Lot Code Source                         |
| SN1*1*PL~  |   |
| MAN*GM*00123456789012345680~   |   |
| PAL*4~   |   |
| HL*4*3*P~  |   |
| LIN* <b>01</b> *UK* <b>10012345000017</b> *LT*ABCDE12345~                  | Traceability Lot Code (GTIN + Batch/Lot) Item 1                                   |
| SN1*2* <b>CA</b> ~   | Quantity and Unit of Measure of the Food  |
| PO4*N*25*LB~   |   |
| N1* <b>MP</b> *Brand Name* <b>UR</b> * https://id.lucy.com/416/3007143000~ | Location Description for the Traceability Lot Code Source Reference (GLN)         |
| HL*5*3*P~  |   |
| LIN* <b>01</b> *UK* <b>10012345000031</b> *LT*XX44C5FEB345~                | Traceability Lot Code (GTIN + Batch/Lot) Item 2                                   |
| SN1*2* <b>CA</b> ~   | Quantity and Unit of Measure of the Food  |
| PO4*N*25*LB~   |   |
| N1* <b>MP</b> *Plant 4 - Harvest Salad Co.* <b>UL</b> *0012345900020~      | Location Description for the Traceability Lot Code Source                         |
| N1* <b>MP</b> *Brand Name* <b>UR</b> * https://id.lucy.com/416/3007143000~ | Location Description for the Traceability Lot Code Source Reference (URI)         |
| HL*6*3*P~  |   |
| LIN* <b>01</b> *UK* <b>10012345000031</b> *LT*XX44C5JAN300~                | Traceability Lot Code (GTIN + Batch/Lot) Item 3                                   |
| SN1*1*CA~  | Quantity and Unit of Measure of the Food  |
| PO4*N*25*LB~   |   |
| N1* <b>MP</b> *Plant 5 - Harvest Salad Co.~                                | Location Description for the Traceability Lot Code Source Reference (Full Adress) |
| N3*600 Robert Ewing Blvd~  |   |
| N4*Ewing*NJ*08628*US~  |   |
| СП*6~  |   |
|  | I   |



# 7 Additional Resources

The following documents provide additional background and relevant information:

- Application of GS1 System of Standards to Support FSMA 204 Guideline
- 856 Ship Notice/Manifest Foodservice Uniform Communication Standard EDI



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