

ASN Structure - GROCERY

Sprouts Grocery EDI ASN (856) Specification:

<https://community.spscommerce.com/sprouts-fulfillment-initiative-2018/>

GS1 US SSCC Introduction:

 Untitled Attachment

GS1 Logistic Label Guideline:

 Untitled Attachment

DEFINITIONS:

Multi-Package Shipments via Small Package Carrier: A multi-package shipment is a single shipment that contains multiple boxes. The shipment will consist of a master tracking number with child tracking numbers for any additional labels.

CARRIER PRO NUMBER: A PRO number is a series of numbers used by carriers as a reference for freight movement. The term "PRO number" is short for progressive number. This series of numbers is used as a tracking tool. PRO numbers are usually 7 to 10 digits long. PRO numbers are usually paired with a SCAC code to form a longer barcode. The SCAC code identifies the carrier with a unique four letter combination, as

set by the [National Motor Freight Traffic Association](#). The SCAC code is then followed by the PRO number of 7 to 10 digits to ultimately create the longer barcode.

Examples:

Carrier	Prefix	Rolling # Length	Rolling # Range	Next Rolling #	Checksum Algorithm
DYLT				2191167	MOD 10 Odd Multiplied by 2
HMES	999	6	from 0 to 999999	972134	YRCMOD11
NPME	999	6	from 0 to 999999	481245	YRCMOD11
R&L		8	from 0 to 999999	51014803	MOD 9
SAIA		10	from 0 to 1400000000	1058175102	Saia MOD 7
SEFL		8	from 0 to 999999	19622004	MOD 11
YRC	999	6	from 0 to 999999	620605	YRCMOD11
XPO (CNWY)		8	from 0 to 999999	67290002	XPOMOD7

BOL: A "BOL" or "Bill Of Lading" number is a number created and assigned by the shipper of an LTL or other type of freight shipment. The number is a combination of 4

letters (the carrier's code[SCAC]), followed by an 8, 10 or 12-digit code. An example of a bill of lading number would be MSC17392833.

TRACKING NUMBER: A tracking number is a unique code that helps both you and shipping service providers identify each package shipment. The number acts as an identification code that's checked and registered during each step of the delivery process. An example of a Small Package Carrier Tracking Numbers are:

UPS = 1Z999AA10193716784

FedEx = 556625774372

SSCC (SSCC-18): The **Serial Shipping Container Code (SSCC)** is an 18-digit GS1 Identification Key used to identify a logistic unit. The SSCC is different from the GTIN, as the SSCC acts as a license plate to track a shipment of logistics units through the supply chain. At Sprouts, the acronym SSID has been used in lieu of SSCC. **SSCC, SSCC-18 and GS1-128 Barcode are all synonymous.**



GS1-128 (formerly known as: UCC-128): The UCC-128 label is also known as the GS1-128 label. Buying organizations such as retailers, grocers and distributors often require their suppliers to use GS1-128 labels in conjunction with an advance ship notice ([EDI 856](#)).

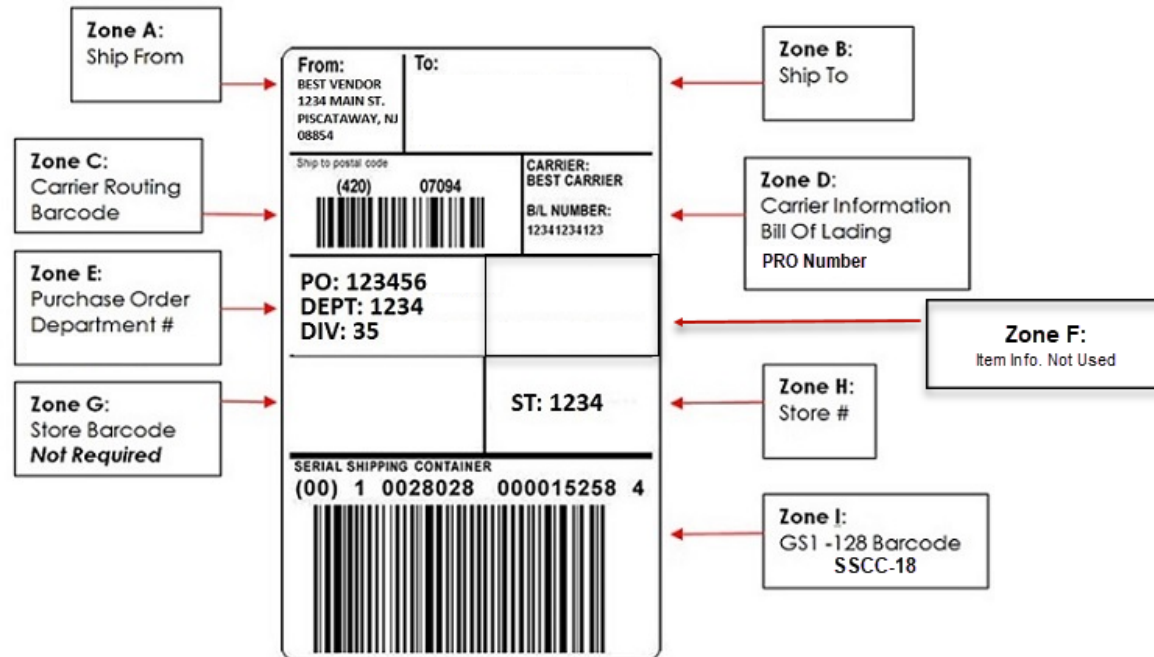
These labels are used to communicate the details of a shipment so the buying organization knows its contents without having to open each box and manually count each piece. UCC-128 labels can be applied to pallet shipments and individual cartons. This GS1-128 barcode, for example, communicates 3 pieces of information: an SCC-14 case code, a batch number, and a packaging date. A GS1-128 shipping label is commonly broken down into various pre-defined zones. Each zone normally contains

either text or barcode information. The bottom zone (Zone I) is commonly used to host the SSCC-18 barcode, which is normally tied to an EDI document referencing all the carton contents. Suppliers to the retail industry are challenged by specific zone requirements for each of their trading partners. In addition to utilizing the SSCC-18 barcode, many retailers use a Store (or Destination) barcode in Zone G. In accordance to the GS1 General Specifications, all the barcodes on this label should be GS1-128 symbols. An Application Identifier is used to specify the data format and purpose for each zone. different companies. GS1-128 not only encodes the data, but provides a method of defining the meaning of the data by defining a list of "Application Identifiers" (AI's). To access the top North American retailers' shipping label formats and keep current on all their business requirements, visit www.tradingpartner.info. The UCC-128 label uses a series of application identifiers (AIs) to provide information to the recipient. The AI defines the length and format of the data. AIs may include: Ship-From, Ship-To, Carrier, Packaging Type, Purchase Order Number, Weights, Quantities, Barcode, Destination Code, Shipping Method

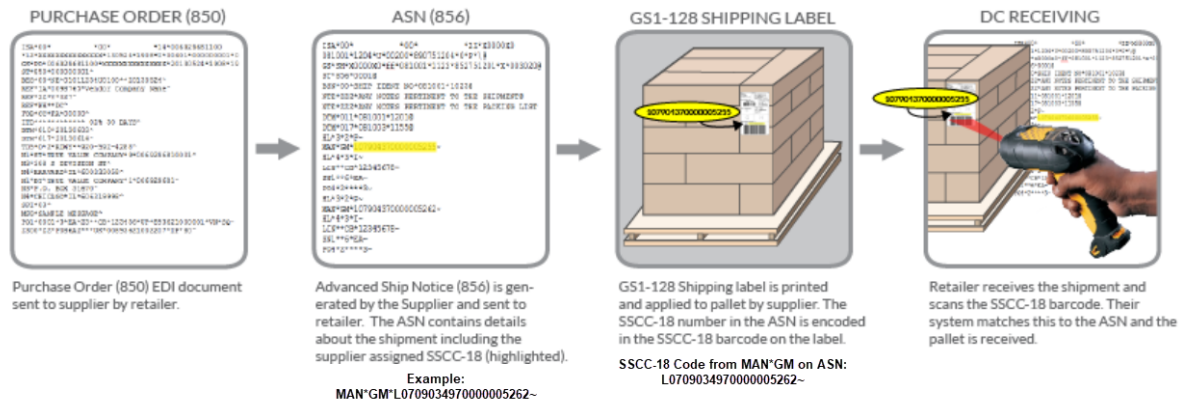
SSCC, SSCC-18 and GS1-128 Barcode are all synonymous.

Example GS1-128 Label(Subset C):

GS1-128 SHIPPING CONTAINER LABEL EXAMPLE (Per GS1 US Guidelines)



SUPPLIER RESPONSIBILITY



SEGMENTS/ELEMENTS IN EDI X12 856 (ASN).

USAGE COLOR CODE LEGEND:

LT/LTL Shipments

Small Package Carrier Shipments

SHIPMENT LEVEL:

REF*BM = Bill of Lading: For LT/LTL Shipments

REF*CN = Carrier Pro Number: For LT/LTL Shipments

Either BOL(BM) or PRO Number(CN) must be used for LT/LTL Shipments

REF*2I = Small Package Carrier Tracking Number: Required when using small carrier package shippers like FedEx, UPS, USPS

Small Package Carrier Tracking Number (or Pick-Up Number) must be used for small package carrier shipments through FedEx, UPS, USPS, etc.

PACK LEVEL:

MAN*GM = SSCC(18-digit Serial Shipping Container Code or SSID as we call it at Sprouts): For LT/LTL Shipments

MAN*CP = Carrier PRO Number(or Pick-Up Number) OR Child BOL(Master BOL at Shipment Level/Child BOL at Pack Level Relationship): For LT/LTL Shipments

MAN *CP = Small Package Carrier Tracking Number: For small package carrier shipments such as UPS, FedEx, USPS, etc.

USAGE EXAMPLES OF THE ABOVE VALUES:

1. WHERE SMALL PACKAGE CARRIER IS USED WITH GS1-128 LABEL:

REF*2I*[UPS/FEDEX TRACKING NUMBER]

MAN*GM*[SSCC]*CP*[UPS/FEDEX TRACKING]

Multi-Package Shipment Example:


```

ISA*00*          *00*          *12*xxxxxxxxxx  *ZZ*SPROUTSFRMARKET*220209*1651**^*00501*012060863*0*P*>~
GS*SH*xxxxxxxxxx*SPROUTSFRMARKET*20220209*1651*12060862*X*005010~
ST*856*12064252~
BSN*00*39511620220209*20220209*1651~
HL*1**S~
TD1*CTN25*2***G*77.84*LB~
TD5**2*FDEG**Fed Ex~
REF*2I*556625774372~
DTM*011*20220209~
DTM*017*20220209~
N1*ST*Sprouts Farmers Mkt 807*92*0807~
N3*9601 N 133rd E Ave~
N4*Owasso*OK*74055-0000*US~
N1*SF*xxxxxxxx*9*xxxxxxxx~
N3*PO Box xxxx~
N4*Los Angeles*CA*90074~
HL*2*1*O~
PRF*00000000~
REF*IA*S-00000~
HL*3*2*P~
MAN*GM*00008298351061601347*CP*556625774373~
HL*4*3*I~
LIN*4*UP*829835931002~
SN1**6*CA~
PID*F*08***A DELICIOUS PRODUCT~
HL*5*2*P~
MAN*GM*00008298351061607998*CP*556625774374~
HL*6*5*I~
LIN*4*UP*829835931002~
SN1**60*CA~
PID*F*08***ANOTHER DELICIOUS PRODUCT~
...

```

Single-Package Shipment Example:

```

1  ISA*00*                *00*                *12*xxxxxxxxxx      *ZZ*SPROUTSFRMARKET*220209*1651**^*00501*012060863*0*P*>~
2  GS*SH*xxxxxxxxxx*SPROUTSFRMARKET*20220209*1651*12060862*X*005010~
3  ST*856*12064252~
4  BSN*00*39511620220209*20220209*1651~
5  HL*1*S~
6  TD1*CTN25*1***G*77.84*LB~
7  TD5**2*FDEG**Fed Ex~
8  REF*2I*556625774372~
9  DTM*011*20220209~
10 DTM*017*20220209~
11 N1*ST*Sprouts Farmers Mkt 807*92*0807~
12 N3*9601 N 133rd E Ave~
13 N4*Owasso*OK*74055-0000*US~
14 N1*SF*xxxxxxxx*9*xxxxxxxx~
15 N3*PO Box xxxx~
16 N4*Los Angeles*CA*90074~
17 HL*2*1*O~
18 PRF*00000000~
19 REF*IA*S-00000~
20 HL*3*2*P~
21 MAN*GM*00008298351061601347*CP*556625774372~
22 HL*4*3*I~
23 LIN*4*UP*829835931002~
24 SN1**6*CA~
25 PID*F*08***A DELICIOUS PRODUCT~
26 ...

```

1. **WHERE SMALL PACKAGE CARRIER IS USED *WITHOUT* A GS1-128 LABEL:**

REF*2I*[UPS/FEDEX TRACKING NUMBER]

MAN*CP*[UPS/FEDEX TRACKING NUMBER]

Multi-Package Shipment Example:

```

ISA*00*          *00*          *12*xxxxxxxxxx   *ZZ*SPROUTSFRMARKET*220209*1651*^*00501*012060863*0*P*>~
GS*SH*xxxxxxxxxx*SPROUTSFRMARKET*20220209*1651*12060862*X*005010~
ST*856*12064252~
BSN*00*39511620220209*20220209*1651~
HL*1**S~
TD1*CTN25*2***G*77.84*LB~
TD5**2*FDEG**Fed Ex~
REF*2I*556625774372~
DTM*011*20220209~
DTM*017*20220209~
N1*ST*Sprouts Farmers Mkt 807*92*0807~
N3*9601 N 133rd E Ave~
N4*Owasso*OK*74055-0000*US~
N1*SF*xxxxxxx*9*xxxxxxxxxx~
N3*PO Box xxxx~
N4*Los Angeles*CA*90074~
HL*2*1*O~
PRF*00000000~
REF*IA*S-00000~
HL*3*2*P~
MAN*CP*556625774373~
HL*4*3*I~
LIN*4*UP*829835931002~
SN1**6*CA~
PID*F*08***A DELICIOUS PRODUCT~
HL*5*2*P~
MAN*CP*556625774374~
HL*6*5*I~
LIN*4*UP*829835931002~
SN1**60*CA~
PID*F*08***ANOTHER DELICIOUS PRODUCT~
...|

```

Single-Package Shipment Example:

```

ISA*00*          *00*          *12*xxxxxxxxxx  *ZZ*SPROUTSFRMARKET*220209*1651**^*00501*012060863*0*P*>~
GS*SH*xxxxxxxxxx*SPROUTSFRMARKET*20220209*1651*12060862*X*005010~
ST*856*12064252~
BSN*00*39511620220209*20220209*1651~
HL*1**S~
TD1*CTN25*1***G*77.84*LB~
TD5**2*FDEG**Fed Ex~
REF*2I*556625774372~
DTM*011*20220209~
DTM*017*20220209~
N1*ST*Sprouts Farmers Mkt 807*92*0807~
N3*9601 N 133rd E Ave~
N4*Owasso*OK*74055-0000*US~
N1*SF*xxxxxxxx*9*xxxxxxxx~
N3*PO Box xxxx~
N4*Los Angeles*CA*90074~
HL*2*1*O~
PRF*00000000~
REF*IA*S-00000~
HL*3*2*P~
MAN*CP*556625774372~
HL*4*3*I~
LIN*4*UP*829835931002~
SN1**3*CA~
PID*F*08***A DELICIOUS PRODUCT~
HL*5*3*I~
LIN*4*UP*829835931002~
SN1**6*CA~
PID*F*08***ANOTHER DELICIOUS PRODUCT~
...|

```

1. **WHERE LT/LTL CARRIER IS USED WITH GS1-128 LABEL:**

REF*BM*[BILL OF LADING[MASTER]]

or

REF*CN*[PRO NUMBER]

MAN*GM*[SSCC]***CP***[PRO NUMBER]

or

MAN*GM*[SSCC]***MAN*CP***[BILL OF LADING[CHILD]]

Multi-Pallet Shipment Example:

```

ISA*00*          *00*          *12*xxxxxxxxxx  *ZZ*SPROUTSFRMARKET*220209*1651*^*00501*012060863*0*P*>~
GS*SH*xxxxxxxxxx*SPROUTSFRMARKET*20220209*1651*12060862*X*005010~
ST*856*12064252~
BSN*00*39511620220209*20220209*1651~
HL*1**S~
TD1*PLT*2****G*77.84*LB~
TD5**2*FXFE**IDS FEDEX~
REF*BM*BOL311991~
DTM*011*20220209~
DTM*017*20220209~
N1*ST*Sprouts Farmers Mkt 807*92*0807~
N3*9601 N 133rd E Ave~
N4*Owasso*OK*74055-0000*US~
N1*SF*xxxxxxx*9*xxxxxxx~
N3*PO Box xxxx~
N4*Los Angeles*CA*90074~
HL*2*1*O~
PRF*00000000~
REF*IA*S-00000~
HL*3*2*P~
MAN*GM*00000514940002520305*CP*654781265079~
HL*4*3*I~
LIN*4*UP*829835931002~
SN1**6*CA~
PID*F*08***A DELICIOUS PRODUCT~
HL*5*2*P~
MAN*GM*00000514940002520998*CP*654781262154~
HL*6*5*I~
LIN*4*UP*829835931002~
SN1**60*CA~
PID*F*08***ANOTHER DELICIOUS PRODUCT~
..|

```

Single-Pallet Shipment Example:

```

ISA*00*          *00*          *12*xxxxxxxxxx  *ZZ*SPROUTSFRMARKET*220209*1651*^*00501*012060863*0*P*>~
GS*SH*xxxxxxxxxx*SPROUTSFRMARKET*20220209*1651*12060862*X*005010~
ST*856*12064252~
BSN*00*39511620220209*20220209*1651~
HL*1**S~
TD1*PLT*1***G*77.84*LB~
TD5**2*FXFE**IDS FEDEX~
REF*BM*BOL311991~
DTM*011*20220209~
DTM*017*20220209~
N1*ST*Sprouts Farmers Mkt 807*92*0807~
N3*9601 N 133rd E Ave~
N4*Owasso*OK*74055-0000*US~
N1*SF*xxxxxxx*9*xxxxxxxxxx~
N3*PO Box xxxx~
N4*Los Angeles*CA*90074~
HL*2*1*O~
PRF*00000000~
REF*IA*S-00000~
HL*3*2*P~
MAN*GM*00000514940002520305*CP*654781265079~
HL*4*3*I~
LIN*4*UP*829835931002~
SN1**6*CA~
PID*F*08***A DELICIOUS PRODUCT~
...

```

1. **WHERE LT/LTL CARRIER IS USED *WITHOUT* GS1-128 LABEL:**

REF*BM*[BILL OF LADING[MASTER]]

or

REF*CN*[PRO NUMBER]

MAN*CP*[PRO NUMBER]

or

MAN*CP*[BILL OF LADING[CHILD]]

Multi-Pallet Shipment Example:

```

ISA*00*          *00*          *12*xxxxxxxxxx  *ZZ*SPROUTSFRMARKET*220209*1651*^*00501*012060863*0*P*>~
GS*SH*xxxxxxxxxx*SPROUTSFRMARKET*20220209*1651*12060862*X*005010~
ST*856*12064252~
BSN*00*39511620220209*20220209*1651~
HL*1*S~
TD1*PLT*1***G*77.84*LB~
TD5*2*FXFE**IDS FEDEX~
REF*BM*BOL311991~
DTM*011*20220209~
DTM*017*20220209~
N1*ST*Sprouts Farmers Mkt 807*92*0807~
N3*9601 N 133rd E Ave~
N4*Owasso*OK*74055-0000*US~
N1*SF*xxxxxxx*9*xxxxxxxx~
N3*PO Box xxxx~
N4*Los Angeles*CA*90074~
HL*2*1*O~
PRF*00000000~
REF*IA*S-00000~
HL*3*2*P~
MAN*CP*654781265079~
HL*4*3*I~
LIN*4*UP*829835931002~
SN1**6*CA~
PID*F*08***A DELICIOUS PRODUCT~
HL*5*2*P~
MAN*CP*654781262154~
HL*6*5*I~
LIN*4*UP*829835931002~
SN1**60*CA~
PID*F*08***ANOTHER DELICIOUS PRODUCT~
...|

```

Single-Pallet Shipment Example:

ISA*00* *00* *12*xxxxxxxxxx *ZZ*SPROUTSFRMARKET*220209*1651*^*00501*012060863*0*P*>~
GS*SH*xxxxxxxxxx*SPROUTSFRMARKET*20220209*1651*12060862*X*005010~
ST*856*12064252~
BSN*00*39511620220209*20220209*1651~
HL*1**S~
TD1*CTN25*1***G*3.18*LB~
TD5**2*FXFE**IDS FEDEX~
REF*BM*BOL311991~
DTM*011*20230714~
DTM*017*20230714~
N1*SF*XXXXXXXX~
N3*XXX XXXXX~
N4*MANCHESTER*NH*03103*US~
N1*ST*SPROUTS FARMERS MKT BIXBY*92*0804~
N3*10111 S MEMORIAL DR~
N4*TULSA*OK*74133-3124*US~
HL*2*1*O~
PRF*18775749~
REF*IA*S-00898~
HL*3*2*P~
MEA*PD*G*3*LB~
MAN*CP*654781265079~
HL*4*3*I~
LIN*1*VN*10132*UP*051494101322~
SN1**1*EA~
PO4*1*O.34*LB~
PID*F*08***COMPLEX C 30CT~
REF*LT*10132087~
HL*5*3*I~
LIN*2*VN*10266*UP*051494102664~
SN1**1*EA~
PO4*1*O.53*LB~
PID*F*08***WOMENS 40+ ONE DAILY MULTIVITAMIN 60CT~
REF*LT*10266154~
...|