



Fresh Foods Management Solution

Mapping Critical Tracking Events (CTEs)
and Key Data Elements (KDEs) to
GS1 Standards



Overview

Risks to food safety exist throughout the entire supply chain, making it critical to not only standardize the identification of products and locations but also share this information effectively with trading partners. Industry leaders and regulations like the Food Safety Modernization Act, Section 204(d) (FSMA Rule 204), have developed a framework for how to capture and share information related to the processing, transformation, and movement of food products along the supply chain.

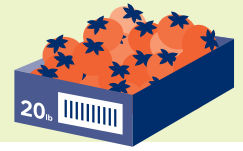
Critical Tracking Events (CTEs) are defined as activities or actions that occur in the supply chain, such as Harvest, Cooling, Transformation, etc. These events need to be recorded throughout the supply chain to achieve food traceability and supply chain visibility. The pieces of information, or attributes, that describe each CTE are called **Key Data Elements (KDEs)**. They answer the What, Where, When, Who, and Why of an event. While CTEs and KDEs help capture information about products, to unlock full supply chain visibility, they need to be shared with trading partners.

Electronic Product Code Information Services (EPCIS) is a GS1 Standard that enables trading partners to share information about the physical movement and status of products, meaning—in the case of FSMA Rule 204 and food traceability—CTEs and KDEs.

To help companies in the food industry meet FSMA Rule 204 requirements or to capture end-to-end traceability data outside of regulatory requirements, this document provides specific examples of how CTEs and KDEs can be mapped to data values for EPCIS.

Tomatoes

This example shows the journey of tomatoes, which are included in the **U.S. FDA's Food Traceability List**, from harvesting at the farm to receiving at the store or restaurant. The tables show how **FSMA Rule 204 CTEs and KDEs** can be captured and shared using **EPCIS**.



Harvest



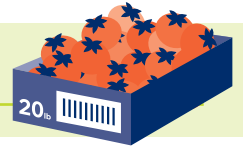
Tomatoes Picked and Placed Into Totes



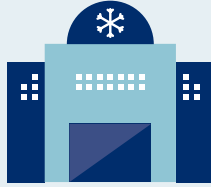
	Key Data Element Name	U.S. FDA FSMA Rule 204 Name	EPCIS Field Translation	Attribute Value
Type	—	—	EPCIS Event Type	Object
When	Harvest Date	Date of harvesting	Event Time	2028-10-16 07:00:00.000 GMT-04:00
What	Commodity of Food	Commodity and, if applicable, variety of the food Commodity	EPC* Class, importClassificationTypeCode, importClassificationValue, functionalName	50320100, 30002457, Tomato, trade item level master data, URI formatted string with identifier
	Item (GTIN*)	Product Description of the food harvested (several KDEs can be accessed in Master Data)	GTIN	00614141000012
	Lot or Batch or Serial #	Traceability Lot Code if assigned = GTIN+Lot	Lot	20180330F101
	Quantity	Quantity	Quantity	2000
	Unit of Measure	Unit of Measure	UoM	LBR
Where	Harvesting Location	Location Description for the farm where the food was harvested*	Read Point (GLN)	0614141012350
Why	Business Step	—	Biz Step	Commissioning
	Business Disposition	—	Disposition	Active
	Activity Type	Reference document type	Biz Transaction Type	ProdOrder
	Activity ID	Reference document number	Biz Transaction ID	WO123
	Cooling Location	Location Description for the immediate subsequent recipient (other than a Transporter) of the food (can be included in Shipping event)*	Destination List (GLN)	0614141012350

**Additional fields to be referenced from Master Data*

Additionally Provide to Cooling Party and Initial Packer (if different) for FSMA Rule 204: Business Name, Business Phone Number, Harvest KDEs (except reference document type and number)



Cooling



Cooling and Washing at Packing House

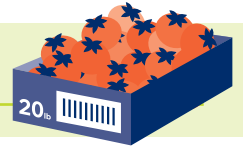


	Key Data Element Name	U.S. FDA FSMA Rule 204 Name	EPCIS Field Translation	Attribute Value
Additional KDEs	Harvest KDEs	Harvest KDEs of RACs (other than a food obtained from a fishing vessel); KDEs must be linked to the traceability lot you assign for the food that you pack	Refer to Harvest CTE	Refer to Harvest CTE
Type	—	—	EPCIS Event Type	Object
When	Cooling Date/Time	Date of Cooling	Event Time	2028-10-17 07:00:00.000 GMT-04:00
What	Commodity of Food	Commodity and, if applicable, variety of the food Commodity	EPC Class, importClassificationTypeCode, importClassificationValue, functionalName	50320100, 30002457, Tomato, trade item level master data, URI formatted string with identifier
	Item (GTIN)	Product Description of the food cooled (several KDEs can be accessed in Master Data)	GTIN	00614141000012
	Lot or Batch or Serial #	Traceability Lot Code if assigned = GTIN+Lot	Lot	20180330F101
	Quantity	Quantity	Quantity	2000
	Unit of Measure	Unit of Measure	UoM	LBR
Where	Cooling Location	Location Description for where you cooled the food*	Read Point (GLN)	0614141012350
Why	Business Step	—	Biz Step	Arriving/Departing
	Business Disposition	—	Disposition	In Progress
	Activity Type	Reference document type	Biz Transaction Type	Recadv
	Activity ID	Reference document number	Biz Transaction ID	REC123
	Initial Packer Location	Location Description for the immediate subsequent recipient (other than a Transporter) of the food*	Destination List (GLN)	0614141012350

*Additional fields to be referenced from Master Data

Additionally Provide to Initial Packer for FSMA Rule 204: Cooling KDEs (except reference document type and reference document number)

Tomatoes



Initial Packing



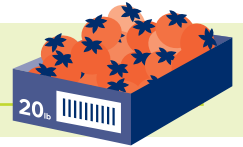
Tomatoes Are Sorted/Graded and Placed Into Cases at Packing House

100 cases that are 20 lb each



	Key Data Element Name	U.S. FDA FSMA Rule 204 Name	EPCIS Field Translation	Attribute Value
Additional KDEs	Harvest KDEs	Initial Packing KDEs of RACs (other than a food obtained from a fishing vessel); KDEs must be linked to the traceability lot you assign for the food that you pack	Refer to Harvest CTE	Refer to Harvest CTE
	Cooling KDEs	Date of Cooling and location where food was cooled (if applicable)	Refer to Cooling CTE	Refer to Cooling CTE
Type	—	—	EPCIS Event Type	Object
When	Receiving Date/Time	Date you received the food	Event Time	2028-10-18 06:00:00.000 GMT-03:00
	Packing Date/Time	Date of Initial Packing	Event Time	2028-10-19 06:00:00.000 GMT-03:00
What	Item (GTIN)	Product Description of the food packed*	GTIN	10614141000019
	Lot or Batch or Serial #	Traceability Lot Code = GTIN+Lot	Lot	20180330F10112
	Quantity	Quantity of the food packed	Quantity	100
	Unit of Measure	Unit of measure of the food packed	UoM	CS
Where	Packing Location	TLC Source Reference where food was packed (if applicable)*	Read Point (GLN)	0614141012350
Why	Business Step	—	Biz Step	Commissioning
	Business Disposition	—	Disposition	Active
	Activity Type	Reference document type	Biz Transaction Type	ProdOrder
	Activity ID	Reference document number	Biz Transaction ID	WO123

*Additional fields to be referenced from Master Data



Shipping



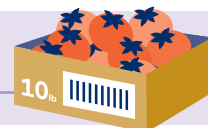
Tomato Cases Are Packed in Pallets at Packing House and Shipped to Repacker (Processor)



	Key Data Element Name	U.S. FDA FSMA Rule 204 Name	EPCIS Field Translation	Attribute Value
Type	—	—	EPCIS Event Type	Object
When	Ship Date/Time	Date you shipped the food	Event Time	2028-10-23 06:00:00.000 GMT-03:00
What	Item (GTIN)	Product Description of the food shipped (several KDEs can be accessed in Master Data)*	GTIN	10614141000019
	Lot or Batch or Serial #	Traceability Lot Code = GTIN+Lot	Lot	20180330F10112
	Quantity	Quantity of the food	Quantity	100
	Unit of Measure	Unit of measure of the food	UoM	CS
Where	Location Event Took Place	—	Read Point (GLN)	0614141012350
	TLC Source (or TLC Source Reference)	Location Description for the Traceability Lot Code Source or TLC Source Reference*	Read Point (GLN)	0614141012350
Why	Business Step	—	Biz Step	Shipping
	Business Disposition	—	Disposition	In Transit
	Activity Type	Reference document type	Biz Transaction Type	ASN856 (DesAdv)
	Activity ID	Reference document identifier	Biz Transaction ID	38789
	Ship To Location	Location Description of Immediate Subsequent Recipient (other than Transporter) of the food*	Destination List (GLN)	0196618000010
	Ship From Location	Location Description for the location from which you shipped the food*	Source List (GLN)	0614141012350

*Additional fields to be referenced from Master Data

Repacked Tomatoes



Receiving



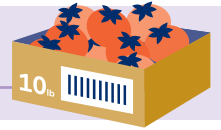
Tomatoes Are Received at Repacker (Processor)



	Key Data Element Name	U.S. FDA FSMA Rule 204 Name	EPCIS Field Translation	Attribute Value
Type	—	—	EPCIS Event Type	Object
When	Receiving Date/Time	Date you received the food	Event Time	2028-10-23 06:00:00.000 GMT-04:00
What	Item (GTIN)	Product Description of the food shipped (several KDEs can be accessed in Master Data)*	GTIN	10614141000019
	Lot or Batch or Serial #	Traceability Lot Code = GTIN+Lot	Lot	20180330F10112
	Quantity	Quantity of the food	Quantity	100
	Unit of Measure	Unit of measure of the food	UoM	CS
Where	Location Event Took Place	—	Read Point (GLN)	0196618000010
	TLC Source (or TLC Source Reference)	Location Description for the Traceability Lot Code Source or TLC Source Reference*	Read Point (GLN)	0614141012350
Why	Business Step	—	Biz Step	Receiving
	Business Disposition	—	Disposition	In Progress
	Activity Type	Reference document type	Biz Transaction Type	Recadv
	Activity ID	Reference document number	Biz Transaction ID	111111
	Receiving Location	Location Description for where the food was received*	Destination List (GLN)	0196618000010
	Ship From Location	Location Description for the Immediate Previous Source (other than a Transporter) of the food*	Source List (GLN)	0614141012350

*Additional fields to be referenced from Master Data

Repacked Tomatoes



Transformation



Tomatoes Are Repacked at Repacker (Processor)

20-lb cases repacked to 10-lb cases, therefore 100 cases turn into 200 cases



	Key Data Element Name	U.S. FDA FSMA Rule 204 Name	EPCIS Field Translation	Attribute Value
Type	—	—	EPCIS Event Type	Transformation
When	Transformation Date/Time	Date transformation was completed	Event Time	2028-10-24 06:00:00.000 GMT-04:00
What: Input	Item (GTIN)	Product Description of the food used (several KDEs can be accessed in Master Data)*	GTIN	10614141000019
	Lot or Batch or Serial #	Traceability Lot Code of the food used = GTIN+Lot	Lot	20180330F10112
	Quantity	Quantity of the food used	Quantity	100
	Unit of Measure	Unit of measure of the food used	UoM	CS
What: Output	Item (GTIN)	Product Description of the new food (transformed) (several KDEs can be accessed in Master Data)*	GTIN	10614141000064
	New Lot or Batch or Serial #	New Traceability Lot Code for the food (transformed) = GTIN+Lot	Lot	20180330F10223
	Quantity	Quantity of the new food (transformed)	Quantity	200
	Unit of Measure	Unit of measure of the new food (transformed)	UoM	CS
Where	Location Event Took Place	—	Read Point (GLN)	0196618000010
	Transformation Location	Location Description for where you transformed the food (i.e., the Traceability Lot Code Source), or (if applicable) the traceability lot code source reference*	Read Point (GLN)	0196618000010
	TLC Source (or TLC Source Reference)	Location Description for the Traceability Lot Code Source or TLC Source Reference*	Read Point (GLN)	0196618000010
Why	Business Step	—	Biz Step	Commissioning
	Business Disposition	—	Disposition	Active
	Activity Type	Reference document type	Biz Transaction Type	ProdOrder
	Activity ID	Reference document number	Biz Transaction ID	WO789

*Additional fields to be referenced from Master Data

Repacked Tomatoes



Shipping



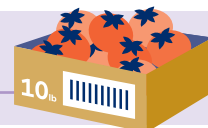
Tomatoes Are Packed in Pallets at Repacker (Processor) and Shipped to Distributor



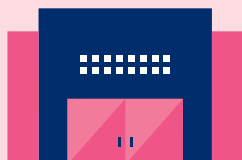
	Key Data Element Name	U.S. FDA FSMA Rule 204 Name	EPCIS Field Translation	Attribute Value
Type	—	—	EPCIS Event Type	Aggregation
When	Ship Date/Time	Date you shipped the food	Event Time	2028-10-26 07:00:00.000 GMT-04:00
What	Pallet (SSCC)	Logistic Unit (Not required by U.S. FDA)	Parent ID	006141411234567890
	Item (GTIN)	Product Description of the food shipped (several KDEs can be accessed in Master Data)*	GTIN	10614141000064
	Lot or Batch or Serial #	Traceability Lot Code = GTIN+Lot	Lot	20180330F10223
	Quantity	Quantity of the food	Quantity	100
	Unit of Measure	Unit of measure of the food	UoM	CS
Where	Location Event Took Place	—	Read Point (GLN)	0196618000010
	TLC Source (or TLC Source Reference)	Location Description for the Traceability Lot Code Source or TLC Source Reference*	Read Point (GLN)	0196618000010
Why	Business Step	—	Biz Step	Shipping
	Business Disposition	—	Disposition	In Transit
	Activity Type	Reference document type	Biz Transaction Type	ASN856 (DesAdv)
	Activity ID	Reference document identifier	Biz Transaction ID	38789
	Ship To Location	Location Description of Immediate Subsequent Recipient (other than Transporter) of the food*	Destination List (GLN)	0860000000420
	Ship From Location	Location Description for the Location from which you shipped the food*	Source List (GLN)	0196618000010

*Additional fields to be referenced from Master Data

Repacked Tomatoes



Receiving



Tomatoes Are Received at Distribution Center



	Key Data Element Name	U.S. FDA FSMA Rule 204 Name	EPCIS Field Translation	Attribute Value
Type	—	—	EPCIS Event Type	Aggregation
When	Receiving Date/Time	Date you received the food	Event Time	2028-10-27 00:00:00.000 GMT-03:00
What	Pallet (SSCC)	Logistic Unit (Not required by U.S. FDA)	Parent ID	006141411234567890
	Item (GTIN)	Product Description of the food shipped (several KDEs can be accessed in Master Data)*	GTIN	10614141000064
	Lot or Batch or Serial #	Traceability Lot Code = GTIN+Lot	Lot	20180330F10223
	Quantity	Quantity of the food	Quantity	100
	Unit of Measure	Unit of measure of the food	UoM	CS
Where	Location Event Took Place	—	Read Point (GLN)	0860000000420
	TLC Source (or TLC Source Reference)	Location Description for the Traceability Lot Code Source or TLC Source Reference*	Read Point (GLN)	0196618000010
Why	Business Step	—	Biz Step	Shipping
	Business Disposition	—	Disposition	In Transit
	Activity Type	Reference document type	Biz Transaction Type	Recadv
	Activity ID	Reference document number	Biz Transaction ID	38789
	Receiving Location	Location Description for where the food was received*	Destination List (GLN)	0860000000420
	Ship From Location	Location Description for the Immediate Previous Source (other than a Transporter) of the food*	Source List (GLN)	0196618000010

*Additional fields to be referenced from Master Data

Repacked Tomatoes



Shipping



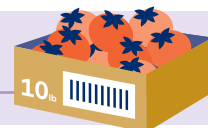
Distribution Center Picks Individual Cases to Ship to Restaurant/Store



	Key Data Element Name	U.S. FDA FSMA Rule 204 Name	EPCIS Field Translation	Attribute Value
Type	—	—	EPCIS Event Type	Object
When	Ship Date/Time	Date you shipped the food	Event Time	2028-10-28 00:00:00.000 GMT-03:00
What	Item (GTIN)	Product Description of the food shipped (several KDEs can be accessed in Master Data)*	GTIN (SSCC is no longer needed)	10614141000064
	Lot or Batch or Serial #	Traceability Lot Code = GTIN+Lot	Lot	20180330F10223
	Quantity	Quantity of the food	Quantity	2
	Unit of Measure	Unit of measure of the food	UoM	CS
Where	Location Event Took Place	—	Read Point (GLN)	0860000000420
	TLC Source (or TLC Source Reference)	Location Description for the Traceability Lot Code Source or TLC Source Reference*	Read Point (GLN)	0196618000010
Why	Business Step	—	Biz Step	Shipping
	Business Disposition	—	Disposition	In Transit
	Activity Type	Reference document type	Biz Transaction Type	ASN856 (DesAdv)
	Activity ID	Reference document identifier	Biz Transaction ID	38789
	Ship To Location	Location Description of Immediate Subsequent Recipient (other than Transporter) of the food*	Destination List (GLN)	0814141000146
	Ship From Location	Location Description for the Location from which you shipped the food*	Source List (GLN)	0860000000420

*Additional fields to be referenced from Master Data

Repacked Tomatoes



Receiving



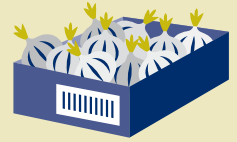
Tomatoes Are Received at Restaurant/Store

	Key Data Element Name	U.S. FDA FSMA Rule 204 Name	EPCIS Field Translation	Attribute Value
Type	—	—	EPCIS Event Type	Object
When	Receiving Date/Time	Date you received the food	Event Time	2028-10-30 00:00:00.000 GMT-03:00
What	Item (GTIN)	Product Description of the food shipped (several KDEs can be accessed in Master Data)*	GTIN	10614141000064
	Lot or Batch or Serial #	Traceability Lot Code = GTIN+Lot	Lot	20180330F10223
	Quantity	Quantity of the food	Quantity	2
	Unit of Measure	Unit of measure of the food	UoM	CS
Where	Location Event Took Place	—	Read Point (GLN)	0814141000146
	TLC Source (or TLC Source Reference)	Location Description for the Traceability Lot Code Source or TLC Source Reference*	Read Point (GLN)	0196618000010
Why	Business Step	—	Biz Step	Shipping
	Business Disposition	—	Disposition	In Transit
	Activity Type	Reference document type	Biz Transaction Type	Recadv
	Activity ID	Reference document number	Biz Transaction ID	38789
	Receiving Location	Location Description for where the food was received*	Destination List (GLN)	0814141000146
	Ship From Location	Location Description for the Immediate Previous Source (other than a transporter) of the food*	Source List (GLN)	0860000000420

*Additional fields to be referenced from Master Data

Packed Onions

This example shows the journey of onions from harvesting at the farm to depletion at the point of sale. Onions are not included in the **U.S. FDA's Food Traceability List** and therefore not in scope for **FSMA Rule 204**. The **CTEs and KDEs** described in the tables for this example are not reflective of the CTEs and KDEs required under FSMA Rule 204 but are recommended by industry to improve overall traceability of the food supply chain.

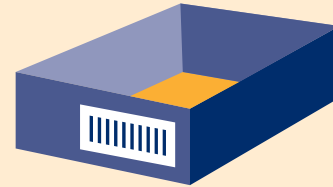


Harvest

Onions Dug and Clipped in Field



Packaging Materials



	Key Data Element Name	EPCIS Translation	Attribute Value
Type	—	EPCIS Event Type	Object
When	Date/Time	Event Time	2028-10-16 07:00:00.000 GMT-04:00
	—	Record Time	2028-10-16 16:00:00.000 UTC
What	Item (GTIN)	GTIN	00614141000012*
	Lot or Batch or Serial #	Lot	20180330F101
	Quantity	Quantity	100
	Unit of Measure	UoM	Bushel
Where	—	Read Point	0614141012350
	—	Biz Location	0614141012350
Why	—	Biz Step	Commissioning
	—	Disposition	Active
	Activity Type	Biz Transaction Type	ProdOrder
	Activity ID	Biz Transaction ID	WO123
	—	ILMD (mda:)	harvestdate 2028-10-16

*This GTIN is an individual onion

	Key Data Element Name	EPCIS Translation	Attribute Value
Type	—	EPCIS Event Type	Object
When	Date/Time	Event Time	2028-10-16 00:00:00.000 GMT-04:00
	—	Record Time	2028-10-16 04:00:00.000 UTC
What	Item (GTIN)	GTIN	001234520000036
	Lot or Batch or Serial #	Lot	XJ23456
	Quantity	Quantity	50
	Unit of Measure	UoM	—
Where	—	Read Point	0012345000119
	—	Biz Location	0012345000119
Why	—	Biz Step	Commissioning
	—	Disposition	Active
	Activity Type	Biz Transaction Type	ProdOrder
	Activity ID	Biz Transaction ID	WO234

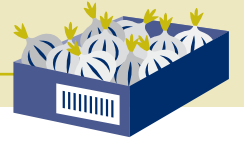
Harvest

Onions (input) are harvested in the field into bushels and then loaded into “packaging materials” (input). Packed onions are the output. These onions are loose in the bushels; they are not packed in the field in the form of a finished good. Sometimes they are packed into sacks or bins instead of bushels.

Harvest

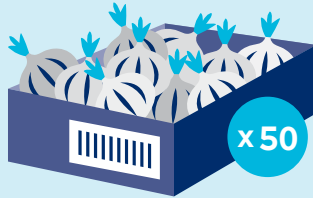
Packaging materials have been previously created for use. This input step identifies the packaging materials to be used in this transformation step.

Packed Onions



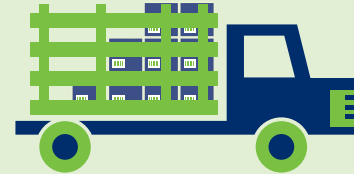
Transform

Packed Onions



Transport

Packed Onions Shipped to Packing Shed



	Key Data Element Name	EPCIS Translation	Attribute Value
Type	—	EPCIS Event Type	Transformation
When	Date/Time	Event Time	2028-10-16 13:00:00.000 GMT-04:00
	—	Record Time	2028-10-16 20:00:00.000 UTC
What: Input	Item (GTIN)	GTIN	00614141000012
	Lot or Batch or Serial #	Lot	20180330F101
	Quantity	Quantity	100
	Unit of Measure	UoM	Bushel
What: Input	Item (GTIN)	GTIN	00123452000036
	Lot or Batch or Serial #	Lot	XJ23456
	Quantity	Quantity	50
	Unit of Measure	UoM	—
What: Output	Item (GTIN)	GTIN	00614141100002
	Lot or Batch or Serial #	Lot	20180330F10112
	Quantity	Quantity	50
	Unit of Measure	UoM	Bin
Where	—	Read Point	0614141012350
	—	Biz Location	0614141012350
Why	—	Biz Step	Commissioning
	—	Disposition	Active
	Activity Type	Biz Transaction Type	ProdOrder
	Activity ID	Biz Transaction ID	WO456
	—	ILMD (mda:)	productiondate 2028-10-16

	Key Data Element Name	EPCIS Translation	Attribute Value
Type	—	EPCIS Event Type	Object
When	Date/Time	Event Time	2028-10-17 08:00:00.000 GMT-04:00
	—	Record Time	2028-10-17 12:00:00.000 UTC
What	Item (GTIN)	GTIN	00614141100002
	Lot or Batch or Serial #	Lot	20180330F10112
	Quantity	Quantity	50
	Unit of Measure	UoM	—
Where	—	Read Point	0614141012350
	—	Biz Location	0614141012350
Why	—	Biz Step	Shipping
	—	Disposition	In Transit
	Activity Type	Biz Transaction Type	DesAdv
	Activity ID	Biz Transaction ID	ASN123
	—	Sources	00614141012353
—	Destinations	0061414130011	

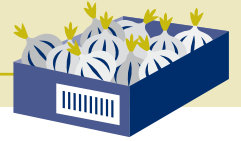
Transform

The harvested onions (input) are put into the packaging materials (input) to create the cases of packed onions (output) for shipment to the shed.

Transport

Packed onions are shipped to the packing shed.

Packed Onions



Transport

Packed Onions Received at Packing Shed



	Key Data Element Name	EPCIS Translation	Attribute Value
Type	—	EPCIS Event Type	Object
When	Date/Time	Event Time	2028-10-18 8:00:00.000 GMT-04:00
	—	Record Time	2028-10-18 12:00:00.000 UTC
What	Item (GTIN)	GTIN	00614141100002
	Lot or Batch or Serial #	Lot	20180330F10112
	Quantity	Quantity	50
	Unit of Measure	UoM	—
Where	—	Read Point	0061414130011
	—	Biz Location	0061414130011
Why	—	Biz Step	Receiving
	—	Disposition	In Progress
	Activity Type	Biz Transaction Type	Recadv
	Activity ID	Biz Transaction ID	RA123

Transport

Packed onions are received at the packing shed.

Finished Goods



Transform

Create Finished Goods



Transport

Ship Finished Goods



	Key Data Element Name	EPCIS Translation	Attribute Value
Type	—	EPCIS Event Type	Transformation
When	Date/Time	Event Time	2028-10-18 00:00:00.000 GMT-04:00
	—	Record Time	2028-10-18 04:00:00.000 UTC
What: Input	Item (GTIN)	GTIN	00614141100002
	Lot or Batch or Serial #	Lot	20180330F10112
	Quantity	Quantity	25
	Unit of Measure	UoM	—
What: Output	Item - Finished Goods (GTIN)	GTIN	00614141300068
	Lot or Batch or Serial #	Lot	2018040G11440
	Quantity	Quantity	15
	Unit of Measure	UoM	Bag
Where	—	Read Point	0061414130011
	—	Biz Location	0061414130011
Why	—	Biz Step	Commissioning
	—	Disposition	Active
	Activity Type	Biz Transaction Type	ProdOrder
	Activity ID	Biz Transaction ID	WO789

	Key Data Element Name	EPCIS Translation	Attribute Value
Type	—	EPCIS Event Type	Object
When	Date/Time	Event Time	2028-10-23 00:00:00.000 GMT-04:00
	—	Record Time	2028-10-23 04:00:00.000 UTC
What	Item (GTIN)	GTIN	00614141300068
	Lot or Batch or Serial #	Lot	2018040G11440
	Quantity	Quantity	10
	Unit of Measure	UoM	—
Where	—	Read Point	0061414130011
	—	Biz Location	0061414130011
Why	—	Biz Step	Shipping
	—	Disposition	In Transit
	Activity Type	Biz Transaction Type	DesAdv
	Activity ID	Biz Transaction ID	ASN789
	—	Sources	0061414130011
—	Destinations	0840002030038	

Transform

Finished goods are created (bags of onions) for transport to final point of sale.

Transport

Finished goods are shipped to final point of sale.

Finished Goods



Receive

Receive Finished Goods



Deplete

Finished Goods Sold at Point of Sale



	Key Data Element Name	EPCIS Translation	Attribute Value
Type	—	EPCIS Event Type	Object
When	Date/Time	Event Time	2028-10-26 00:00:00.000 GMT-04:00
	—	Record Time	2028-10-26 04:00:00.000 UTC
What	Item (GTIN)	GTIN	00614141300068
	Lot or Batch or Serial #	Lot	2018040G11440
	Quantity	Quantity	10
	Unit of Measure	UoM	—
Where	—	Read Point	0840002030038
	—	Biz Location	0840002030038
Why	—	Biz Step	Receiving
	—	Disposition	In Progress
	Activity Type	Biz Transaction Type	Recadv
	Activity ID	Biz Transaction ID	RA789
	—	Sources	0840002030038
	—	Destinations	—

	Key Data Element Name	EPCIS Translation	Attribute Value
Type	—	EPCIS Event Type	Object
When	Date/Time	Event Time	2028-10-26 00:00:00.000 GMT-04:00
	—	Record Time	2028-10-26 04:00:00.000 UTC
What	Item (GTIN)	GTIN	00614141300068
	Lot or Batch or Serial #	Lot	2018040G11440
	Quantity	Quantity	8
	Unit of Measure	UoM	—
Where	Event Locations (GLN)	Read Point	0840002030038
	Event Owner (GLN)	Biz Location	0840002030038
Why	—	Biz Step	Retail Selling
	—	Disposition	Retail Sold
	Activity Type	Biz Transaction Type	Receipt Transaction*
	Activity ID	Biz Transaction ID	POS 123
	—	Sources	—
	—	Destinations	—

*Receipt Transaction does not yet exist and would need to be developed

Receive

Finished goods are received at final point-of-sale.

Deplete

Finished goods (onions in the bag) are sold at point of sale.



Deplete

Destroy Unsalable Finished Goods



	Key Data Element Name	EPCIS Translation	Attribute Value
Type	—	EPCIS Event Type	Object
When	Date/Time	Event Time	2028-10-26 00:00:00.000 GMT-04:00
	—	Record Time	2028-10-26 04:00:00.000 UTC
What	Item (GTIN)	GTIN	00614141300068
	Lot or Batch or Serial #	Lot	2018040G11440
	Quantity	Quantity	2
	Unit of Measure	UoM	—
Where	Event Locations (GLN)	Read Point	0840002030038
	Event Owner (GLN)	Biz Location	0840002030038
Why	—	Biz Step	Destroying
	—	Disposition	Destroyed
	Activity Type	Biz Transaction Type	Work Order*
	Activity ID	Biz Transaction ID	WO456
	—	Sources	—
	—	Destinations	—

*Work Order does not yet exist and would need to be developed

Deplete

Unsalable finished goods (bags of onions) are destroyed.

! Important: 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. GS1 US® recommends that any organization developing an implementation designed to be in conformance with a GS1 Specification should consult with their own counsel to determine the compliance of such an implementation with any relevant intellectual property or other rights of third parties. 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. This publication is provided “as-is,” and GS1 US disclaims, and you expressly release GS1 US from, all liability relating to your use of this case study. GS1 US does not represent that any methods or recommendations in the document do not violate the intellectual property rights of any third party. GS1 US has not performed a search to determine what intellectual property may be infringed by an implementation of any strategies or suggestions included in this document. GS1 US makes no warranties of any kind relating to the suitability of the GS1 Standards and the specific content within this publication and disclaims any liability for any party’s infringement of intellectual property rights that arise as a result of any implementation of strategies or suggestions included in this document. [Click here](#) for GS1 US’s full disclaimer.

About GS1 US

GS1 US, a member of GS1 global, is a not-for-profit information standards organization that facilitates industry collaboration to help improve supply chain visibility and efficiency through the use of GS1 Standards, the most widely used supply chain standards system in the world. Nearly 300,000 businesses in 25 industries rely on GS1 US for trading partner collaboration that optimizes their supply chains, drives cost performance and revenue growth, while also

enabling regulatory compliance. They achieve these benefits through solutions based on GS1 global unique numbering and identification systems, barcodes, Electronic Product Code-based RFID, data synchronization, and electronic information exchange. GS1 US also manages the United Nations Standard Products and Services Code® (UNSPSC®). For more information, visit www.gs1us.org.

GS1 US Corporate Headquarters

Princeton South Corporate Center, 300 Charles Ewing Boulevard
Ewing, NJ 08628 USA
T +1 937.435.3870 | **E** info@gs1us.org
www.gs1us.org

Connect With Us



© 2024 GS1 US All Rights Reserved
GDTI: 0614141029754v1.3