



Kroger EDI830 for DSD (Direct Ship to Store) suppliers

EDI Version : 5010 ; EDI Standards : X12 and UCS

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Modified:	8/8/2018

830 Planning Schedule with Release Capability

Functional Group=PS

Purpose: This X12 Transaction Set contains the format and establishes the data contents of the Planning Schedule with Release Capability Transaction Set (830) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business practice relative to the transfer of forecasting/material release information between organizations. The planning schedule transaction may be used in various ways or in a combination of ways, such as: (1) a simple forecast; (2) a forecast with the buyer's authorization for the seller to commit to resources, such as labor or material; (3) a forecast that is also used as an order release mechanism, containing such elements as resource authorizations, period-to-date cumulative quantities, and specific ship/delivery patterns for requirements that have been represented in "buckets," such as weekly, monthly, or quarterly. The order release forecast may also contain all data related to purchase orders, as required, because the order release capability eliminates the need for discrete generation of purchase orders.

Example:

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ST*830*0001~
BFR*00*DSD830CCOLA**BB*A*20171001*20171014*20171002~
N1*FR*NASHVILLE*92*026~
N1*FR*NASHVILLE*1*021732409~
LIN**UD*002500003223~
PID*F***MNMD FRUIT PUNCH 6PK~
FST*2.559*D*C*20171001~
SDQ*EA*SN*00897*1.448*00898*1.111~
FST*2.188*D*C*20171002~
SDQ*EA*SN*00897*1.088*00898*1.100~
CTT*1~
SE*12*0001~
```

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0200	BFR	Beginning Segment for Planning Schedule	M	1			Must use
LOOP ID - N1					200		
2300	N1	Party Identification	O	1			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - LIN					≥1		
0100	LIN	Item Identification	M	1			Must use
0800	PID	Product/Item Description	O	1000			Used
LOOP ID - FST					≥1	N2/4100L	
4100	FST	Forecast Schedule	O	1		N2/4100	Used
4200	SDQ	Destination Quantity	O	99999			Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	CTT	Transaction Totals	O	1		C3/0100	Used

BFR Beginning Segment for Planning Schedule

Pos: 0200 Max: 1
 Heading - Mandatory
 Loop: N/A Elements: 7

User Option (Usage): Must use

Purpose: To indicate the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates

User Note 1:

*Example: BFR*00*DSD830CCOLA**BB*A*20171001*20171014*20171002-*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BFR01	353	Transaction Set Purpose Code	M	ID	2/2	Must use

Description: Code identifying purpose of transaction set

Code Name

00 Original

BFR02	127	Reference Identification	X	AN	1/50	Used
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

BFR04	675	Schedule Type Qualifier	M	ID	2/2	Must use
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Description: Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast

Code Name

BB Customer Production (Consumption) Based

BFR05	676	Schedule Quantity Qualifier	M	ID	1/1	Must use
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Description: Code identifying the type of quantities used when defining a schedule or forecast

Code Name

A Actual Discrete Quantities

BFR06	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

User Note 1: *Forecast begin date*

BFR07	373	Date	O	DT	8/8	Used
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Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

User Note 1: *Forecast end date*

BFR08	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

Syntax Rules:

1. R0203 - At least one of BFR02 or BFR03 is required.

N1 Party Identification

Pos: 2300	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

Purpose: To identify a party by type of organization, name, and code

User Note 1:

Example:

*N1*FR*NASHVILLE*92*026~*

*N1*FR*NASHVILLE*1*021732409~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use
		Description: Code identifying an organizational entity, a physical location, property or an individual				
		Code Name				
		FR				Message From
N102	93	Name	X	AN	1/60	Used
		Description: Free-form name				
N103	66	Identification Code Qualifier	X	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67)				
		Code Name				
		1				D-U-N-S Number, Dun & Bradstreet
		92				Assigned by Buyer or Buyer's Agent
N104	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				

User Note 1: *N104 contains division number when N103 = '92'
N104 contains the Division DUNS number when N103 = '1'*

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

LIN Item Identification

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: LIN	Elements: 2

User Option (Usage): Must use

Purpose: To specify basic item identification data

User Note 1:

Example:

LIN**UD*002500003223-

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)						
Code Name						
UD U.P.C./EAN Consumer Package Code (2-5-5)						
LIN03	234	Product/Service ID	M	AN	1/48	Must use
Description: Identifying number for a product or service						

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.
8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.
10. P2223 - If either LIN22 or LIN23 is present, then the other is required.
11. P2425 - If either LIN24 or LIN25 is present, then the other is required.
12. P2627 - If either LIN26 or LIN27 is present, then the other is required.
13. P2829 - If either LIN28 or LIN29 is present, then the other is required.
14. P3031 - If either LIN30 or LIN31 is present, then the other is required.

PID Product/Item Description

Pos: 0800	Max: 1000
Detail - Optional	
Loop: LIN	Elements: 2

User Option (Usage): Used

Purpose: To describe a product or process in coded or free-form format

User Note 1:

*Example: PID*F****MNMD FRUIT PUNCH 6PK~*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Must use

Description: Code indicating the format of a description

Code Name

F Free-form

PID05	352	Description	X	AN	1/80	Used
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Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required.
2. R0405 - At least one of PID04 or PID05 is required.
3. C0703 - If PID07 is present, then PID03 is required.
4. C0804 - If PID08 is present, then PID04 is required.
5. C0905 - If PID09 is present, then PID05 is required.

FST Forecast Schedule

Pos: 4100	Max: 1
Detail - Optional	
Loop: FST	Elements: 5

User Option (Usage): Used

Purpose: To specify the forecasted dates and quantities

User Note 1:

Example:

*FST*2.559*D*C*20171001-*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FST01	380	Quantity	M	R	1/15	Must use

Description: Numeric value of quantity

User Note 1: *If more than one store, the FST01 is the sum of the forecasted quantities listed on the SDQ segment (SDQ04 + SDQ06 + SDQ08, etc)*

FST02	680	Forecast Qualifier	M	ID	1/1	Must use
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Description: Code specifying the sender's confidence level of the forecast data or an action associated with a forecast

Code Name

D Planning

FST03	681	Timing Qualifier	M	ID	1/1	Must use
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Description: Code specifying interval grouping of the forecast or product activity

Code Name

C Daily

FST04	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

User Note 1: *Forecast start date*

FST05	373	Date	O	DT	8/8	Used
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Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

User Note 1: *Forecast end date*

Syntax Rules:

1. P0607 - If either FST06 or FST07 is present, then the other is required.
2. P0809 - If either FST08 or FST09 is present, then the other is required.
3. C1312 - If FST13 is present, then FST12 is required.

SDQ Destination Quantity

Pos: 4200 Max: 99999
 Detail - Optional
 Loop: FST Elements: 22

User Option (Usage): Used

Purpose: To specify destination and quantity detail

User Note 1:

*Example: SDQ*EA*SN*00897*1.448*00600*1.40~*

SDQ03, SDQ05, SDQ07, SDQ09, SDQ11, SDQ13, SDQ15, SDQ17, SDQ19 and SDQ21 elements contains 5 digit Kroger store number

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SDQ01	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 manner in which a measurement has been taken				
		All valid standard codes are used.				
SDQ02	66	Identification Code Qualifier	O	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67)				
		<u>Code</u> <u>Name</u>				
		SN Store Number				
SDQ03	67	Identification Code	M	AN	2/80	Must use
		Description: Code identifying a party or other code				
SDQ04	380	Quantity	M	R	1/15	Must use
		Description: Numeric value of quantity				
SDQ05	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
SDQ06	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
SDQ07	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
SDQ08	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
SDQ09	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
SDQ10	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SDQ11	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
SDQ12	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
SDQ13	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
SDQ14	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
SDQ15	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
SDQ16	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
SDQ17	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
SDQ18	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
SDQ19	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
SDQ20	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
SDQ21	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
SDQ22	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				

Syntax Rules:

1. P0506 - If either SDQ05 or SDQ06 is present, then the other is required.
2. P0708 - If either SDQ07 or SDQ08 is present, then the other is required.
3. P0910 - If either SDQ09 or SDQ10 is present, then the other is required.
4. P1112 - If either SDQ11 or SDQ12 is present, then the other is required.
5. P1314 - If either SDQ13 or SDQ14 is present, then the other is required.
6. P1516 - If either SDQ15 or SDQ16 is present, then the other is required.
7. P1718 - If either SDQ17 or SDQ18 is present, then the other is required.
8. P1920 - If either SDQ19 or SDQ20 is present, then the other is required.
9. P2122 - If either SDQ21 or SDQ22 is present, then the other is required.

CTT Transaction Totals

Pos: 0100	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Used

Purpose: To transmit a hash total for a specific element in the transaction set

User Note 1:

*Example: CTT*02-*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Must use

Description: Total number of line items in the transaction set