

## Appendix E: Message Mapping

### EDI Transaction Maps

This section documents how data required by CPFR data flows maps to existing ANSI ASC X12 EDI transaction sets. Where there are gaps, members of the technical subcommittee are actively working with the appropriate standards bodies to update the EDI specifications to ensure complete coverage in the near future.

### Planning Schedule with Release Capability [830]

The 830 transaction set corresponds to two CPFR messages: the sales/order forecast and the sales/order forecast item revision. As of Version 004030 of the ASC X12 standard, some CPFR-specific extensions of the 830 have been approved. These are shown in *italics*. All other mapping information is based on Version 004010.

***See Page 140 for Message Mapping Charts.***



## Appendix E Message Mapping

### Sales/Order Forecast Message Mapping

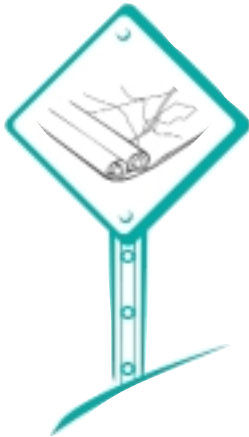
Entity	Attribute	Segment ID	Reference Designator	Data Element	Data Type	Min/Max	Code(s)
Forecast Header	Seller ID	N1	01	98	ID	2/2	
	Seller Location ID	N1	04	67	AN	2/80	N103 will contain a qualifier identifying the type of ID
	Buyer ID	N1	01	98	ID	2/2	
	Buyer Location ID	N1	04	67	AN	2/80	N103 will contain a qualifier identifying the type of ID
	Forecast Generation Date	BFR	08	373	DT	8/8	
	Forecast Sent Date	ISA	09	108	DT	6/6	
	Forecast Start Date	BFR	06	373	DT	8/8	
	Forecast End Date	BFR	07	373	DT	8/8	
	Forecast Type Code	BFR	04	675	ID	2/2	BB=Sales DL=Order
	Forecast Source Indicator	ISA	06	106	AN	15/15	ISA05 will contain a qualifier identifying the type of ID
Forecast Item	Standard Product ID	LIN	03	234	AN	1/48	LIN02 will contain code UK or UP
	Quantity Type Code	FST	11	673	ID	2/2	PH=Promotional R1=(Fill) Replenishment SZ=Seasonal
	Time Period Begin Date	FST	04	373	DT	8/8	
	Time Period End Date	FST	05	373	DT	8/8	
	Buyer Location ID	SDQ	03, 05, 07, 09, 11, 13, 15, 17, 19, 21	67	AN	2/80	SDQ02 will contain a qualifier identifying the type of ID
	Item Quantity	SDQ	04, 06, 08, 10, 12, 14, 16, 18, 20, 22	380	R	1/15	
	Event ID	REF	02	127	AN		REF01 will contain code EVI = Event Identification
	Number of Participating Locations	QTY	02	380	R	1/15	QTY01 will contain code AS = Participant Total
	Forecast Frozen Flag	FST	02	680	ID	1/1	

Table 31

### Sales/Order Forecast Item Revision Message Mapping

Entity	Attribute	Segment ID	Reference Designator	Data Element	Data Type	Min/Max	Code(s)	
Forecast Item Revision	Seller ID	N1	01	98	ID	2/2		
	Seller Location ID	N1	04	67	AN	2/80	N103 will contain a qualifier identifying the type of ID	
	Buyer ID	N1	01	98	ID	2/2		
	Buyer Location ID	N1	04	67	AN	2/80	N103 will contain a qualifier identifying the type of ID	
	Revision Generation Date	BFR	09	373	DT	8/8	BRF01 will contain code 04=Change	
	Revision Source Indicator	ISA	06	106	AN	15/15	ISA05 will contain a qualifier identifying the type of ID	
	Standard Product ID	LIN	03	234	AN	1/48	LIN02 will contain code UK or UP	
	Quantity Type Code	FST	11	673	ID	2/2	PH=Promotional R1=(Fill) Replenishment SZ=Seasonal	
	Time Period Begin Date	FST	04	373	DT	8/8		
	Time Period End Date	FST	05	373	DT	8/8		
	Forecast Generation Date	BFR	08	373	DT	8/8		
	Forecast Revision	Forecast Source Indicator	N1	01	98	ID	2/2	EBI=Source
		Forecast Type Code	BFR	04	675	ID	2/2	BB=Sales DL=Order
Quantity Type Code		FST	11	673	ID	2/2	PH=Promotional R1=(Fill) Replenishment SZ=Seasonal	
Adjustment Reason Code		FST	12	426	ID	2/2		
Adjustment Description (Comment)		FST	13	352	AN	1/80		
Buyer Location ID		SDQ	03, 05, 07, 09, 11, 13, 15, 17, 19, 21	67	AN	2/80	SDQ02 will contain a qualifier identifying the type of ID	
Item Quantity		SDQ	04, 06, 08, 10, 12, 14, 16, 18, 20, 22	380	R	1/15		

**Table 32**



## Appendix E Message Mapping

### Item Information Request [893]

The 893 transaction set can be used to request that a trading partner send activity data for a product (using the Product Activity Data [852] transaction set). It corresponds to the CPFR Actual Item Performance History Request message.

### Actual Item Performance History Request

Entity	Attribute	Segment ID	Reference Designator	Data Element	Data Type	Min/Max	Code(s)
	Purpose Code	B2A	01	353	ID	2/2	
<i>New Entity</i>	Standard Product ID	G39	03	234	AN	1/48	G3902 will contain code UK or UP
	Seller ID	N1	01	98	ID	2/2	FR
	Seller Location ID	N1	04	67	AN	2/80	N103 will contain a qualifier identifying the type of ID
	Buyer ID	N1	01	98	ID	2/2	TO
	Buyer Location ID	N1	04	67	AN	2/80	N103 will contain a qualifier identifying the type of ID
	Activity Period Begin Date	DTM	02	373	DT	8/8	DTM01 will contain code 196=Start
	Activity Period End Date	DTM	02	373	DT	8/8	DTM01 will contain code 197=End
	"Bucket Size"	RCR	01	681	ID	1/1	
	Quantity Type Code/Criteria Code	RCR	02	859	ID	2/2	

**Table 33**

## Product Activity Data [852]

The 852 Product Activity Data transaction set corresponds to the CPFR Actual Item Performance History Response message.

### Actual Item Performance History Response

Entity	Attribute	Segment ID	Reference Designator	Data Element	Data Type	Min/Max	Code(s)
Product Activity	Standard Product ID	LIN	03	234	AN	1/48	LIN02 will contain code UK or UP
	Seller ID	N1	01	98	ID	2/2	MF
	Seller Location ID	N1	04	67	AN	2/80	N103 will contain a qualifier identifying the type of ID
	Quantity Type Qualifier	ZA	01	859	ID	2/2	
	Activity Period Begin Date	XP ZA	02 05	373 373	DT DT	8/8 8/8	ZA04 will contain 090 =Report Start
	Activity Period End Date	XP ZA	03 05	373 373	DT DT	8/8 8/8	ZA04 will contain 091 =Report Start
	Buyer Location ID	SDQ	03, 05, 07, 09, 11, 13, 15, 17, 19, 21	67	AN	2/80	SDQ02 will contain a qualifier identifying the type of ID
	Item Quantity	SDQ	04, 06, 08, 10, 12, 14, 16, 18, 20, 22	380	R	1/15	
Item Metric	Standard Product ID	LIN	03	234	AN	1/48	LIN02 will contain code UK or UP
	Seller ID	N1	01	98	ID	2/2	MF
	Seller Location ID	N1	04	67	AN	2/80	N103 will contain a qualifier identifying the type of ID
	Criteria Code	ZA	01	859	ID	2/2	
	Activity Period Begin Date	ZA	05	373	DT	8/8	ZA04 will contain 090 =Report Start
	Activity Period End Date	ZA	05	373	DT	8/8	ZA04 will contain 091 =Report End
	Buyer Location ID	SDQ	03, 05, 07, 09, 11, 13, 15, 17, 19, 21	67	AN	2/80	SDQ02 will contain a qualifier identifying the type of ID
	Metric Value	SDQ	04, 06, 08, 10, 12, 14, 16, 18, 20, 22	380	R	1/15	
	Metric Value UOM	SDQ	01	355	ID	2/2	

Table 34



## Appendix E Message Mapping

### **Purchase Order [850 or 875]**

Companies use either the 850 or 875 transaction set to place a purchase order for products that have been forecasted (i.e., VICS EDI 850 or UCS 875). It is expected that they will use existing conventions for the data exchange. There is no CPFR-specific mapping for purchase orders.

### **Purchase Order Acknowledgement [855]**

Companies can use the 855 transaction for two distinct purposes. First is to acknowledge a buyer's purchase order submitted via a Purchase Order Transaction [850]. This acknowledgement can contain no changes, nor can it initiate changes or cancellations in response to the buyer's purchase order. The acknowledgement can be used to initiate a seller-created order to the buyer. There is no CPFR-specific mapping for acknowledgements.

### **Price/Sales Catalog [832] or Item Maintenance [888]**

Companies can use the 832 or 888 transaction set to send updated product information to trading partners (i.e., VICS EDI 832 or UCS 888). It is expected that they will use existing conventions for the data exchange. There is no CPFR-specific mapping for item maintenance transactions.

### **Promotional Announcement [889]**

Companies can use the 889 transaction set to inform CPFR partners of upcoming promotional events. Promotional events are a subset of the event types defined by CPFR. There is no CPFR-specific mapping for events.

### **SIL Message Maps**

This appendix documents how data required by CPFR data flows maps to existing Standard Interchange Language (SIL) data elements and tables.

Since the publication of the 1998 CPFR Guidelines, new data elements and SIL tables were submitted to and approved by the SIL Standards Maintenance Committee. An updated mapping follows:

### Item Management Profile

CPFR Data Model Entity	CPFR Data Model Attribute	SIL Table	SIL Column ID	SIL Data Type	SIL Category	Size
Item Management Profile	Standard Product ID (K)	ITEMMANAGE	F01	GPC	NUMBER	14
	Seller Location ID (K)	ITEMMANAGE	F213	CHAR	NUMBER	13
	Buyer Location ID (K)	ITEMMANAGE	F414	CHAR	NUMBER	13
	Effective Date (K)	ITEMMANAGE	F415	DATE	DATE	7
	Expiration Date	ITEMMANAGE	F416	DATE	DATE	7
	Minimum Order Quantity	ITEMMANAGE	F417	NUM	QUANTITY	5.0
	Order Multiple Quantity	ITEMMANAGE	F418	NUM	QUANTITY	5.0
	Lead Time Days	ITEMMANAGE	F419	NUM	QUANTITY	4.1
	Order Interval Days	ITEMMANAGE	F420	NUM	QUANTITY	3.1
	Rounding Rules Description	ITEMMANAGE	F421	CHAR	DESC	80
	Transportation Strategy Description	ITEMMANAGE	F422	CHAR	DESC	80
	Safety Stock Rules Description	ITEMMANAGE	F423	CHAR	DESC	80
	Frozen Period Days	ITEMMANAGE	F424	NUM	QUANTITY	4.1

**Table 35**

### Sales/Order/Forecast Header

CPFR Data Model Entity	CPFR Data Model Attribute	SIL Table	SIL Column ID	SIL Data Type	SIL Category	Size
Forecast Header	Seller ID (K)	FCSTHEADER	F213	CHAR	NUMBER	13
	Buyer ID (K)	FCSTHEADER	F414	CHAR	NUMBER	13
	Forecast Generation Date (K)	FCSTHEADER	F425	DATE	DATE	7
	Forecast Purpose Code (K)	FCSTHEADER	F426	NUM	CODE	1
	Data Source Code (K)	FCSTHEADER	F427	NUM	CODE	1
	Forecast Sent Date		Extracted from transaction	DATE	DATE	7
	Forecast Start Date	FCSTHEADER	F428	DATE	DATE	7
	Forecast End Date	FCSTHEADER	F429	DATE	DATE	7

**Table 36**



## Appendix E Message Mapping

### Sales/Order/Forecast Item Detail

CPFR Data Model Entity	CPFR Data Model Attribute	SIL Table	SIL Column ID	SIL Data Type	SIL Category	Size
Forecast Item	Seller Location ID (K)	FCSTITEM	F213	CHAR	NUMBER	13
	Buyer Location ID (K)	FCSTITEM	F414	CHAR	NUMBER	13
	Standard Product ID (K)	FCSTITEM	F01	GPC	NUMBER	14
	Time Period Begin Date (K)	FCSTITEM	F428	DATE	DATE	7
	Forecast Generation Date (K)	FCSTITEM	F425	DATE	DATE	7
	Forecast Purpose Code (K)	FCSTITEM	F426	NUM	CODE	1
	Forecast Type Code	FCSTITEM	F432	NUM	CODE	1
	Data Source Code (K)	FCSTITEM	F427	NUM	CODE	1
	Time Period End Date	FCSTITEM	F429	DATE	DATE	7
	Item Quantity	FCSTITEM	F433	NUM	QUANTITY	10.3
	Event Type Code	FCSTITEM	F434	CHAR	CODE	4.0
	Event Begin Date	FCSTITEM	F435	DATE	DATE	7
	Participating Locations Quantity	FCSTITEM	F436	NUM	QUANTITY	6.0
	Forecast Change Restriction Indicator	FCSTITEM	F437	FLAG	FLAG	1

**Table 37**

## Actual Item Performance History

CPFR Data Model Entity	CPFR Data Model Attribute	SIL Table	SIL Column ID	SIL Data Type	SIL Category	Size	
Product Activity	Standard Product ID (K)	PERFORMHIST	F01	GPC	NUMBER	14	
	Seller Location ID (K)	PERFORMHIST	F213	CHAR	NUMBER	13	
	Buyer Location ID (K)	PERFORMHIST	F414	CHAR	NUMBER	13	
	Time Period Begin Date (K)	PERFORMHIST	F439	DATE	DATE	7	
	Time Period End Date	PERFORMHIST	F440	DATE	DATE	7	
	Criteria Type Code (K)	PERFORMHIST	F441	NUM	CODE	4	
	Item Quantity	PERFORMHIST	F441	NUM	QUANTITY	10.3	
	UOM Code	PERFORMHIST	F23	NUM	CODE	4	
	Operational Results	Standard Product ID (K)	PERFORMHIST	F01	GPC	NUMBER	14
		Seller Location ID (K)	PERFORMHIST	F213	CHAR	NUMBER	13
Buyer Location ID (K)		PERFORMHIST	F414	CHAR	NUMBER	13	
Time Period Begin Date (K)		PERFORMHIST	F439	DATE	DATE	7	
Time Period End Date		PERFORMHIST	F440	DATE	DATE	7	
Criteria Type Code (K)		PERFORMHIST	F441	NUM	CODE	4	
Metric Value		PERFORMHIST	F442	NUM	QUANTITY	10.3	
UOM Code		PERFORMHIST	F23	NUM	CODE	4	

Table 38



## Appendix E Message Mapping

### Sales/Order Forecast Exception Item

CPFR Data Model Entity	CPFR Data Model Attribute	SIL Table	SIL Column ID	SIL Data Type	SIL Category	Size
Forecast Item Exception	Standard Product ID (K)	FCSTITEMEX	F01	GPC	NUMBER	14
	Seller Location ID (K)	FCSTITEMEX	F213	CHAR	NUMBER	13
	Buyer Location ID (K)	FCSTITEMEX	F414	CHAR	NUMBER	13
	Time Period Begin Date (K)	FCSTITEMEX	F439	DATE	DATE	7
	Criteria Type Code (K)	FCSTITEMEX	F441	NUM	CODE	4
	Forecast Generation Date (K)	FCSTITEMEX	F425	DATE	DATE	7
	Data Source Code (K)	FCSTITEMEX	F427	NUM	CODE	1
	Forecast Purpose Code (K)	FCSTITEMEX	F426	NUM	CODE	1
	Effective Date (K)	FCSTITEMEX	F445	DATE	DATE	7
	Forecast Type Code (K)	FCSTITEMEX	F432	NUM	CODE	1

**Table 39**

## Sales/Order Forecast Comparison Exception

CPFR Data Model Entity	CPFR Data Model Attribute	SIL Table	SIL Column ID	SIL Data Type	SIL Category	Size
Forecast Comparison Exception	Criteria Type Code (K)	FCSTCOMPEX	F441	NUM	CODE	4
	Seller Location ID (K)	FCSTCOMPEX	F213	CHAR	NUMBER	13
	Buyer Location ID (K)	FCSTCOMPEX	F414	CHAR	NUMBER	13
	Standard Product ID (K)	FCSTCOMPEX	F01	GPC	NUMBER	14
	Time Period Begin Date (K)	FCSTCOMPEX	F428	DATE	DATE	7
	Forecast Purpose Code (K)	FCSTCOMPEX	F426	NUM	CODE	1
	Forecast Generation Date (K)	FCSTCOMPEX	F425	DATE	DATE	7
	Comparison Forecast Generation Date (K)	FCSTCOMPEX	F443	DATE	DATE	7
	Data Source Code	FCSTCOMPEX	F427	NUM	CODE	1
	Comparison Data Source Code (K)	FCSTCOMPEX	F444	NUM	CODE	1
	Effective Date (K)	FCSTCOMPEX	F445	DATE	DATE	7
	Forecast Type Code (K)	FCSTCOMPEX	F432	NUM	CODE	1

Table 40



## Appendix E Message Mapping

### Operational Exception Item

CPFR Data Model Entity	CPFR Data Model Attribute	SIL Table	SIL Column ID	SIL Data Type	SIL Category	Size
Operational Result Exception	Standard Product ID (K)	FCSTOPEREX	F01	GPC	NUMBER	14
	Time Period Begin Date (K)	FCSTOPEREX	F439	DATE	DATE	7
	Criteria Type Code (K)	FCSTOPEREX	F441	NUM	CODE	4
	Seller Location ID (K)	FCSTOPEREX	F213	CHAR	NUMBER	13
	Buyer Location ID (K)	FCSTOPEREX	F414	CHAR	NUMBER	13
	Effective Date (K)	FCSTOPEREX	F445	DATE	DATE	7

**Table 41**

### Operational Exception Criteria

CPFR Data Model Entity	CPFR Data Model Attribute	SIL Table	SIL Column ID	SIL Data Type	SIL Category	Size
Operational Exception Criteria	Standard Product ID (K)	OPEREXCCRT	F01	GPC	NUMBER	14
	Criteria Type Code (K)	OPEREXCCRT	F441	NUM	CODE	4
	Effective Date (K)	OPEREXCCRT	F445	DATE	DATE	7
	Buyer Location ID (K)	OPEREXCCRT	F414	CHAR	NUMBER	13
	Seller Location ID (K)	OPEREXCCRT	F213	CHAR	NUMBER	13
	Exception Value	OPEREXCCRT	F447	NUM	NUMBER	10,3
	UOM Code	OPEREXCCRT	F23	NUM	CODE	4
	Collaboration Priority Code	OPEREXCCRT	F448	NUM	CODE	3
	Exception Value Comparison Code	OPEREXCCRT	F449	NUM	CODE	4
	Expiration Date	OPEREXCCRT	F450	DATE	DATE	7

**Table 42**

## Sales/Order Forecast Item Exception Criteria

CPFR Data Model Entity	CPFR Data Model Attribute	SIL Table	SIL Column ID	SIL Data Type	SIL Category	Size
Forecast Item Exception Criteria	Standard Product ID (K)	FCSTITEXCRT	F01	GPC	NUMBER	14
	Criteria Type Code (K)	FCSTITEXCRT	F441	NUM	CODE	4
	Forecast Purpose Code (K)	FCSTITEXCRT	F426	NUM	CODE	1
	Effective Date (K)	FCSTITEXCRT	F445	DATE	DATE	7
	Time Delta Days Quantity (K)	FCSTITEXCRT	F446	NUM	NUMBER	5
	Buyer Location ID (K)	FCSTITEXCRT	F414	CHAR	NUMBER	13
	Seller Location ID (K)	FCSTITEXCRT	F213	CHAR	NUMBER	13
	Forecast Type Code (K)	FCSTITEXCRT	F432	NUM	CODE	1
	Exception Value	FCSTITEXCRT	F447	NUM	NUMBER	10.3
	UOM Code	FCSTITEXCRT	F23	NUM	CODE	4
	Collaboration Priority Code	FCSTITEXCRT	F448	NUM	CODE	1
	Exception Value Comparison Code	FCSTITEXCRT	F449	NUM	CODE	4
	Expiration Date	FCSTITEXCRT	F450	DATE	DATE	7

Table 43



## Appendix E Message Mapping

### Sales/Order Forecast Event

CPFR Data Model Entity	CPFR Data Model Attribute	SIL Table	SIL Column ID	SIL Data Type	SIL Category	Size
Event	Event Type Code (K)	FCSTEVENT	F434	NUM	CODE	4
	Event Begin Date (K)	FCSTEVENT	F435	DATE	DATE	7
	Data Source Code	FCSTEVENT	F427	NUM	CODE	1
	Event End Date	FCSTEVENT	F451	DATE	DATE	7
	Event Description	FCSTEVENT	F452	CHAR	DESC	30
	Event Create Date	FCSTEVENT	F453	DATE	DATE	7

**Table 44**

### Sales/Order Forecast Event Item

CPFR Data Model Entity	CPFR Data Model Attribute	SIL Table	SIL Column ID	SIL Data Type	SIL Category	Size
Event Item	Seller Location ID	FCSTEVENTITM	F213	CHAR	NUMBER	13
	Buyer Location ID	FCSTEVENTITM	F414	CHAR	NUMBER	13
	Standard Product ID	FCSTEVENTITM	F01	GPC	NUMBER	14
	Event Type Code	FCSTEVENTITM	F434	NUM	CODE	4
	Event Begin Date	FCSTEVENTITM	F435	DATE	DATE	7

**Table 45**

## Sales/Order Forecast Event Item Impact

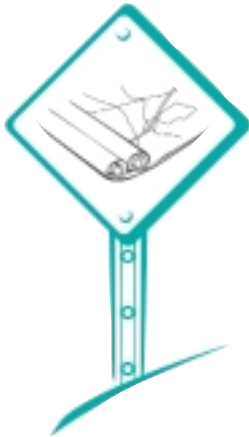
CPFR Data Model Entity	CPFR Data Model Attribute	SIL Table	SIL Column ID	SIL Data Type	SIL Category	Size
Event Item Impact	Seller Location ID (K)	EVNTITEMIMPT	F213	CHAR	NUMBER	13
	Buyer Location ID (K)	EVNTITEMIMPT	F414	CHAR	NUMBER	13
	Standard Product ID (K)	EVNTITEMIMPT	F01	GPC	NUMBER	14
	Event Impact Type Code (K)	EVNTITEMIMPT	F454	NUM	CODE	
	Event Type Code (K)	EVNTITEMIMPT	F434	NUM	CODE	4
	Event Begin Date (K)	EVNTITEMIMPT	F435	DATE	DATE	7
	Planned or Actual Code (K)	EVNTITEMIMPT	F455	NUM	CODE	
	UOM Code	EVNTITEMIMPT	F23	NUM	CODE	4
	Impact Value	EVNTITEMIMPT	F456	NUM	NUMBER	10.3
	Impact Effect Code	EVNTITEMIMPT	F457	NUM	CODE	1

Table 46

## Sales/Order Forecast Revision Header

CPFR Data Model Entity	CPFR Data Model Attribute	SIL Table	SIL Column ID	SIL Data Type	SIL Category	Size
Forecast Revision Header	Seller Location ID (K)	FCSTHEADER	F213	CHAR	NUMBER	13
	Buyer Location ID (K)	FCSTHEADER	F414	CHAR	NUMBER	13
	Revision Generation Date	FCSTHEADER	F425	DATE	DATE	7
	Forecast Purpose Code (K)	FCSTHEADER	F426	NUM	CODE	1
	Data Source Code (K)	FCSTHEADER	F427	NUM	CODE	1
	Forecast Change Status Code	FCSTHEADER	F430	NUM	CODE	1
	Revision Sent Date	FCSTHEADER	Extracted from transaction	DATE	DATE	7

Table 47



## Appendix E Message Mapping

### Sales/Order Forecast Revision Item

CPFR Data Model Entity	CPFR Data Model Attribute	SIL Table	SIL Column ID	SIL Data Type	SIL Category	Size
Forecast Revision Item	Seller Location ID (K)	FCSTITEM	F213	CHAR	NUMBER	13
	Buyer Location ID (K)	FCSTITEM	F414	CHAR	NUMBER	13
	Time Period Begin Date (K)	FCSTITEM	F428	DATE	DATE	7
	Standard Product ID (K)	FCSTITEM	F01	GPC	NUMBER	14
	Forecast Generation Date (K)	FCSTITEM	F425	DATE	DATE	7
	Forecast Purpose Code (K)	FCSTITEM	F426	NUM	CODE	1
	Data Source Code (K)	FCSTITEM	F427	NUM	CODE	1
	Revision Generation Date (K)	FCSTITEM	F425	DATE	DATE	7
	Criteria Type Code (K)	FCSTITEM	F441	NUM	CODE	4
	Forecast Type Code (K)	FCSTITEM	F432	NUM	CODE	1
	Participating Locations Quantity	FCSTITEM	TBD	???	???	???
	Revised Item Quantity	FCSTITEM	F433	NUM	QUANTITY	10.3
	Adjustment Reason Code	FCSTITEM	F438	NUM	CODE	4

**Table 48**