

GENERAL INFORMATION

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ISA & IEA

TRANSACTION SET: All Transactions (Interchange Control)

SEGMENT: ISA - Interchange Control Header

MAX USAGE/LOOP: 1/None

PURPOSE: To start and identify an interchange of one or more functional groups and interchange-related control segments.

ISA-INTERCHANGE CONTROL STRUCTURE

<u>ELEM ID</u>	<u>ELEM NO.</u>	<u>NAME</u>	<u>FEATURES</u>	<u>COMMENTS</u>
ISA01	I01	Authorization Information Qualifier	M ID 02/02	Use "00"
ISA02	I02	Authorization Information	M ID 10/10	Use 10 Spaces
ISA03	I03	Security Information Qualifier	M ID 02/02	Use "00"
ISA04	I04	Security Information	M AN 10/10	Use 10 Spaces
ISA05	I05	Interchange ID Qualifier	M ID 02/02	Use "01", "12", "14", "ZZ"
ISA06	I06	Interchange Sender ID	M ID 15/15	Use Duns number, Phone number or mutually defined number
ISA07	I05	Interchange ID Qualifier	M ID 02/02	Use "01", "12" "14", "ZZ"
ISA08	I07	Interchange Receiver ID	M ID 15/15	Use Duns number, Phone number or mutually defined number
ISA09	I08	Date	M DT 06/06	YYMMDD
ISA10	I09	Time	M TM 04/04	HHMM
ISA11	I10	Interchange Standards ID	M ID 01/01	Use "U"
ISA12	I11	Interchange Version ID	M ID 05/05	Use "00204"

ISA & IEA

ELEMELEM

<u>ID</u>	<u>NO.</u>	<u>NAME</u>	<u>FEATURES</u>	<u>COMMENTS</u>
ISA13	I12	Interchange Control	M NO 09/09	Interchange Control Number
ISA14	I13	Acknowledgement Requested	M ID 01/01	Use "0"
ISA15	I14	Test Indicator	M ID 01/01	Use "P"
ISA16	I15	Subelement Separator	M AN 01/01	Use '>'

ISA & IEA

TRANSACTION SET: All Transactions (Interchange Control)

SEGMENT: IEA - Interchange Control Trailer

MAX USAGE/LOOP: 1/None

PURPOSE: To define the end of an interchange of one or more functional groups and interchange-related control segments.

IEA-INTERCHANGE CONTROL STRUCTURE

ELEMELEM

<u>ID</u>	<u>NO.</u>	<u>NAME</u>	<u>FEATURES</u>	<u>COMMENTS</u>
IEA01	I16	Number of included Functional Groups	M N0 01/05	Number of Functional Groups (GS/GE Pairs) included in transmission
IEA02	I12	Interchange Control Number	M N0 09/09	Same as ISA13

GS & GE

GS - FUNCTIONAL GROUP HEADER

ELEMELEM

<u>ID</u>	<u>NO.</u>	<u>NAME</u>	<u>FEATURES</u>	<u>COMMENTS</u>
GS01	479	Functional Identifier Code	M ID 02/02	Use "PS"
GS02	142	Application Sender's Code	M AN 02/12	Use Duns number, Phone number or mutually defined number
GS03	124	Application Receiver's Code	M AN 02/12	Use Duns number, Phone number or mutually defined number
GS04	29	Group Date	M DT 08/08	Date sender generated a functional group of transaction sets
GS05	30	Group Time	M TM 04/04	Time when the sender generated a functional group of transaction sets (HHMM) 24 hr clock
GS06	28	Group Control Number	M N0 01/09	A number assigned by sender
GS07	455	Responsible Agency Code	M ID 01/02	Use "X"
GS08	480	Version/Release/Industry	M ID 01/12	Use "004010"

GS & GE

GE - FUNCTIONAL GROUP TRAILER

ELEMELEM

<u>ID</u>	<u>NO.</u>	<u>NAME</u>	<u>FEATURES</u>	<u>COMMENTS</u>
GE01	97	Number of Transaction Sets Included	M N0 01/06	Total Count of transaction sets (ST through SE) included in this Functional Group
GE02	28	Group Control	M N0 01/09	Same as GE06

830 Planning Schedule

Table 1 - Heading Area

<u>Seg ID</u>	<u>Title</u>	<u>Usage</u>	<u>Max Use</u>	<u>Loop</u>
ST	Transaction Set Header	M	1	
BFR	Beginning Segment for Planning Schedule	M	1	
N1	Name	O	1	N1/200
REF	Reference Identification	O	1	

Table 2 - Detail Area

<u>Seg ID</u>	<u>Title</u>	<u>Usage</u>	<u>Max Use</u>	<u>Loop</u>
LIN	Item Identification	M	1	LIN/>1
UIT	Unit Detail	O	1	
PER	Administrative Contact	O	3	
FST	Forecast Schedule	O	>1	
SHP	Shipped/Received Information	O	2	
REF	Reference Identification	O	1	

Table 3 - Summary Area

<u>Seg ID</u>	<u>Title</u>	<u>Usage</u>	<u>Max Use</u>	<u>Loop</u>
CTT	Transaction Totals	M	1	
SE	Transaction Set Trailer	M	1	

SEGMENT: ST - Transaction Set Header

LEVEL: Heading

MAX USAGE/LOOP: 1/None

PURPOSE: To indicate the start of a transaction set and to assign a control number.

<u>ELEM ID</u>	<u>ELEM NO.</u>	<u>NAME</u>	<u>FEATURES</u>	<u>COMMENTS</u>
ST01	143	Transaction Set ID Code	M ID 03/03	Must contain "830"
ST02	329	Transaction Set Control Number	M AN 04/09	Identifying control number assigned by the originator

SEGMENT: BFR - Beginning Segment for Planning Schedule

LEVEL: Heading

MAX USAGE/LOOP: 1/None

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

ELEM ID	ELEM NO.	NAME	FEATURES	COMMENTS
BFR01	353	Transaction Set Purpose Code	M ID 02/02	MPC will send "05"
BFR02	127	Reference Number	X AN 01/30	Identifying number for a forecast assigned by the orderer/purchaser
BFR03	328	Release Number	X AN 01/30	Number identifying a release
BFR04	675	Forecast Type Qualifier	M ID 02/02	MPC will send "DL"
BFR05	676	Forecast Quantity Qualifier	M ID 01/01	MPC will send "A"
BFR06	373	Date	M DT 08/08	Forecast Horizon Start Date
BFR07	373	Date	O DT 08/08	Forecast Horizon End Date
BFR08	373	Date	M DT 08/08	Date Forecast Generated

SEGMENT: N1 - Name

LEVEL: Heading

MAX USAGE/LOOP: 1/200

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

<u>ELEM ID</u>	<u>ELEM NO.</u>	<u>NAME</u>	<u>FEATURES</u>	<u>COMMENTS</u>
N101	98	Entity ID Code	M ID 02/03	MPC will send "MI", "SU" and "ST"
N102	93	Name	X AN 01/60	Name
N103	66	ID Code Qualifier	X ID 01/02	Any valid code listed in the ANSI X-12 Data Element Dictionary.
N104	67	ID Code	O AN 02/80	Identification Code

SEGMENT: REF – Reference Identification

LEVEL: Heading

MAX USAGE/LOOP: 1/None

PURPOSE: To specify identifying information.

<u>ELEM ID</u>	<u>ELEM NO.</u>	<u>NAME</u>	<u>FEATURES</u>	<u>COMMENTS</u>
REF01	128	Reference Identification Qualifier	M ID 02/03	'DK" Dock Code
REF02	127	Reference Identification	X AN 01/30	MPC Division

SEGMENT: LIN - Item Identification Detail

LEVEL: Detail

MAX USAGE/LOOP: 1/>1

PURPOSE: To specify basic item identification data.

ELEM ID	ELEM NO.	NAME	FEATURES	COMMENTS
LIN01	350	Assigned Identification	O AN 01/20	
LIN02	235	Product/Service ID Qualifier	M ID 02/02	MPC will send "BP"
LIN03	234	Product/Service ID	M AN 01/48	MPC Part Number
LIN04	235	Product/Service ID Qualifier	X ID 02/02	MPC will send 'PO'
LIN05	234	Product/Service ID	X AN 01/48	MPC Purchase Order
LIN06	235	Product/Service ID Qualifier	X ID 02/02	MPC will send "EC"
LIN07	234	Product/Service ID	X AN 01/48	Engineering Change Level Order Number

SEGMENT: UIT - Unit Detail

LEVEL: Detail

MAX USAGE/LOOP: 1/None

PURPOSE: To specify item unit data.

<u>ELEM ID</u>	<u>ELEM NO.</u>	<u>NAME</u>	<u>FEATURES</u>	<u>COMMENTS</u>
UIT01	355	Unit of Measure Code	M ID 02/02	Any valid code listed in the ANSI X-12 Data Element Dictionary.
UIT02	212	Unit Price	X R 01/17	MPC does not use
UIT03	639	Basis Unit Price Code	O ID 02/02	MPC does not use

SEGMENT: PER - Administrative Communications Contact

LEVEL: Detail

MAX USAGE/LOOP: 3/None

PURPOSE: To identify a person or office to whom administrative communications should be directed.

<u>ELEM ID</u>	<u>ELEM NO.</u>	<u>NAME</u>	<u>FEATURES</u>	<u>COMMENTS</u>
PER01	366	Contact Function Code	M ID 02/02	MPC will send "EX"
PER02	93	Name	O AN 01/60	
PER03	365	Communications Number Qualifier	X ID 02/02	MPC will send "TE"
PER04	364	Communications Number	X AN 01/80	

SEGMENT: FST - Forecast Schedule

LEVEL: Detail

MAX USAGE/LOOP: >1/LIN

PURPOSE: To specify the forecasted dates and quantities.

ELEM ID	ELEM NO.	NAME	FEATURES	COMMENTS
FST01	380	Quantity	M R 01/15	
FST02	680	Forecast Qualifier	M ID 01/01	MPC will send "A" - Immediate, "C" - Firm, "D" - Planning
FST03	681	Forecast Timing Qualifier	M ID 01/01	MPC will send "W" or "M"
FST04	373	Date	M DT 08/08	Date Due

SEGMENT: SHP - Shipped/Received Information

LEVEL: Detail

MAX USAGE/LOOP: 1/25

PURPOSE: To specify shipment and/or receipt information.

ELEM ID	ELEM NO.	NAME	FEATURES	COMMENTS
SHP01	673	Quantity Qualifier	O ID 02/02	MPC will send '01' - Discrete Quantity, '02' - Cumulative Quantity
SHP02	380	Quantity	X R 01/15	When SHP01 = 01 then last quantity received When SHP01= 02 then cum received quantity
SHP03	374	Date/Time Qualifier	X ID 03/03	When SHP01 = 01 then '050' - Date received When SHP01 = 02 then '051' - Cumulative Quantity Start
SHP04	373	Date	X DT 08/08	When SHP03= 50 then last received date When SHP03 = 51 the cum start date

SEGMENT: REF – Reference Identification

LEVEL: Detail

MAX USAGE/LOOP: 1/None

PURPOSE: To specify identifying information.

<u>ELEM ID</u>	<u>ELEM NO.</u>	<u>NAME</u>	<u>FEATURES</u>	<u>COMMENTS</u>
REF01	128	Reference Identification Qualifier	M ID 02/03	‘SI’ Shipper’s Identifying Number for Shipment
REF02	127	Reference Identification	X AN 01/30	Ship ID of last receipt

SEGMENT: CTT - Transaction Totals

LEVEL: Summary

MAX USAGE/LOOP: 1/None

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

<u>ELEM ID</u>	<u>ELEM NO.</u>	<u>NAME</u>	<u>FEATURES</u>	<u>COMMENTS</u>
CTT01	354	Number of Line Items	M N0 01/06	Total number of LIN segments
CTT02	347	Hash Total	O R 01/10	Hash Total of Quantities

SEGMENT: SE - Transaction Set Trailer

LEVEL: Summary

MAX USAGE/LOOP: 1/None

PURPOSE: To indicate the end of a transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) Segments).

ELEM ID	ELEM NO.	NAME	FEATURES	COMMENTS
SE01	96	Number of Included Segments	M N0 01/10	
SE02	329	Transaction Set Control Number	M AN 04/09	Must be the same number contained in ST02 of the ST - Transaction Set Header

