ALCOA FUJIKURA LIMITED

IMPLEMENTATION GUIDELINES FOR OUTBOUND PLANNING SCHEDULE (830)

ANSI X12
VERSION/RELEASE 003040

Revision: 04/14/2004

This standard contains the format and establishes the data contents of the Planning Schedule for Forecast (830) for use within the context of an Electronic Data Interchange (EDI) also known as Electronic Commerce (EC) environment. The transaction set can be used to provide for customary and established business practice relative to the transfer of forecasting information between organizations.

The Planning Schedule Transaction may be used in various ways or in combination of ways, such as:

- A simple forecast
- A forecast with the buyer's authorization for the seller to commit to resources, such as labor or materials
- 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 my also contain data related to purchase orders, as required, because the order release capability eliminates the need for discrete generation of purchase orders.

The implementation guidelines are based on the EDI ASC X12 standards Draft Version 3 Release 4 (003040). AFL expects all vendors to follow provided specifications.

SEGMENT: ISA - Interchange Control Header

LEVEL: Heading Only

USAGE: Mandatory

MAX USAGE/LOOPS: Max Use: 1

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

EXAMPLES: **ISA*00* *00* *ZZ*AFLAY0306*ZZ* SupplierID*040414*1315*U*00304*000000735*0*P*>~**

ELEM ID	ELEM NUMBER	NAME	ANSI FEATURES	AFL Requirement	NOTES
ISA01	I01	AUTHORIZ. ID QUALIFIER	M ID 2/2	M 2/2	"00"
ISA02	I02	AUTHORIZ. INFORMATION	M AN 10/10	M 10/10	
ISA03	I03	SECURITY INFO. QUALIFIER	M ID 2/12	M 2/12	"00"
ISA04	I04	SECURITY INFORMATION	M AN 10/10	M 10/10	
ISA05	I05	INTERCHANGE ID QUALIFIER	M ID 2/2	M 2/2	"ZZ" for Mutually defined
ISA06	I06	INTERCHANGE SENDER ID	M ID 15/15	M 9/9	
ISA07	I07	INTERCHANGE ID QUALIFIER	M ID 2/2	M 2/2	Supplier Preference: Supplier ID Qualifier
ISA08	I08	INTERCHANGE RECEIVER ID	M ID 15/15	M 9/9	Supplier Preference: Supplier Identification
ISA09	I09	INTERCHANGE DATE	M DT 6/6	M 6/6	YYMMDD
ISA10	I10	INTERCHANGE TIME	M TM 4/4	M 4/4	HHMM
ISA11	I11	INTERCHANGE STANDARDS ID	M ID 1/1	M 1/1	"U"
ISA12	I12	INTERCHANGE VERSION ID	M ID 5/5	M 5/5	"00304"

ISA13	I13	INTERCHANGE CONTROL NUMBER	M N0 9/9	M 9/9	Must be identical to the Interchange Control # contained in IEA02
ISA14	I14	ACKNOWLEDGE REQUESTED	M ID 1/1	M 1/1	Supplier Preference: "0" for No Acknowledgment Requested "1" for Acknowledgment Requested
ISA15	I15	TEST INDICATOR	M ID 1/1	M 1/1	"T" for Test "P" for Production
ISA16	I16	SUBELEMENT SEPARATOR	M AM 1/1	M 1/1	> ~

TRANSACTION SET:	830 - Planning Schedule for forecast purpose only
SEGMENT:	GS - Functional Group Header
LEVEL:	Heading Only
USAGE:	Mandatory
MAX USAGE/LOOPS:	Max Use: 1
PURPOSE:	To indicate the beginning of a functional group and to provide control information.
EXAMPLES:	**GS*PS*AFLAY0306*SUPPLIERID*040414*1321*5*X*003040~**

ELEMENT ID	ELEMENT NUMBER	NAME	ANSI FEATURES	AFL Requirement	NOTES
GS01	479	FUNCTIONAL ID CODE	M ID 2/2	M 2/2	"PS" for 830
GS02	142	APPLICATION SENDER CODE	M ID 2/12	M 9/9	Buyer Defined
GS03	124	APPLICATION RECEIVERS CODE	M ID 2/12	M 2/12	Supplier Preference:
GS04	29	DATA INTERCHANGE DATE	M DT 6/6	M 6/6	
GS05	30	DATA INTERCHANGE TIME	M TM 4/4	M 4/4	
GS06	28	DATA INTERCHANGE CONTROL NUMBER	M N0 1/9	M 1/9	Must match the Data Interchange Control Number contained in the GE02 segment.
GS07	455	RESPONSIBLE AGENCY CODE	M ID 1/2	M 1/1	"X" For ANSI
GS08	480	VERSION/REL IND. ID CODE	M ID 1/12	M 1/12	Ver/Rel “003040”

TRANSACTION SET:	830 - Planning Schedule for forecast purpose only
SEGMENT:	ST - Transaction Set Header
LEVEL:	Heading Only
USAGE:	Mandatory
MAX USAGE/LOOPS:	Max Use: 1
PURPOSE:	To indicate the start of a transaction set and to assign a control number.
EXAMPLES:	**ST*830*0256~**

ELEMENT ID	ELEMENT NUMBER	NAME	ANSI FEATURES	AFL Requirement	NOTES
ST01	143	TRANSACTION SET ID CODE	M ID 3/3	M 3/3	"830" for forecast only
ST02	329	TRANSACTION SET CONTROL NUMBER	M AN 4/9	M 4/9	Must match the Transaction Set Control Number contained in the SE02 segment.

TRANSACTION SET: 830 - Planning Schedule for forecast purpose only

SEGMENT: BFR - Beginning Segment for Planning Schedule

LEVEL: Heading Only

USAGE: Mandatory

MAX USAGE/LOOPS: Max Use: As Specified in ANSI ASC X12 Standard

PURPOSE: To indicate the beginning of a planning schedule transaction, and related forecast envelope dates.

EXAMPLES: **BFR*05*040414-473164*DL*A*040414*040614*040414*16896~**

ELEMENT ID	ELEMENT NUMBER	NAME	ANSI FEATURES	AFL Requirement	NOTES
BFR01	353	TRANSACTION SET PURPOSE CODE	M ID 2/2	M 2/2	"00" for Original "05" for Replace
BFR02	328	REFERENCE NUMBER	C AN 1/30	M 1/30	Reference Number
BFR03	328	RELEASE NUMBER	C AN 1/3		Not Used
BFR04	675	FORECAST TYPE QUALIFIER	M ID 2/2	M 2/2	"DL" for Delivery Based “KB” for KANBAN “SH” for Ship Date
BFR05	676	FORECAST QUANTITY QUALIFIER	M ID 1/1	M 1/1	"A" for Actual Discrete Quantities “C” for Cummulative Quantities
BFR06	373	DATE	M DT 6/6	M 6/6	Schedule Horizon Start Date YYMMDD
BFR07	373	DATE	M DT 6/6	M 6/6	Schedule Horizon End Date YYMMDD
BFR08	373	DATE	M DT 6/6	M 6/6	Date Forecast Generated (Run Date) YYMMDD
BFR09	373	DATE	O DT 6/6		Not Used
BFR10	367	CONTRACT NUMBER	O AN 1/30		Not Used
BFR11	324	PO#	M AN 1/22	M 1/22	Purchase Order Number

TRANSACTION SET:	830 - Planning Schedule for forecast purpose only
SEGMENT:	N1 - Name
LEVEL:	Heading Only
USAGE:	Mandatory
MAX USAGE/LOOPS:	Max Use: As Specified in ANSI ASC X12 Standard
PURPOSE:	To identify a party by type or organization, name and code.
EXAMPLES:	**N1*ST*AFL Automotive LP AW1*92AFLPAC~**

ELEMENT ID	ELEMENT NUMBER	NAME	ANSI FEATURES	AFL Requirement	NOTES
N101	98	SHIP-TO ENTITY ID CODE	M ID 2/2	M 2/2	"ST" for Shipped To "SU" for Supplier Code
N102	93	SHIP-TO NAME	O AN 1/35	O 1/35	
N103	66	ID CODE QUALIFIER	M ID 1/2	M 1/2	"01" for DUNS Number “91” for Supplier Assigned Identifiers "92" for Buyer Assigned Identifiers
N104	67	IDENTIFICATION CODE	M AN 2/17	M 2/17	Identifier

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TRANSACTION SET:	830 - Planning Schedule for forecast purpose only
SEGMENT:	N3 – Address Information
LEVEL:	Heading Only
USAGE:	Mandatory
MAX USAGE/LOOPS:	Max Use: As Specified in ANSI ASC X12 Standard
PURPOSE:	To specify the location of the named party.
EXAMPLES:	**N3*AFL Automotive LP AW1*121 Industrial Blvd**.~

ELEMENT ID	ELEMENT NUMBER	NAME	ANSI FEATURES	AFL Requirement	NOTES
N301	166	ADDRESS	M AN 1/35	M 1/35	
N302	166	ADDL.ADDRESS	O AN 1/35	M 1/35	

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TRANSACTION SET:	830 - Planning Schedule for forecast purpose only
SEGMENT:	N4 – Geographic Location
LEVEL:	Heading Only
USAGE:	Mandatory
MAX USAGE/LOOPS:	Max Use: As Specified in ANSI ASC X12 Standard
PURPOSE:	To specify the geographic place of the named party.
EXAMPLES:	**N4*El Paso* TX*79906~**

ELEMENT ID	ELEMENT NUMBER	NAME	ANSI FEATURES	AFL Requirement	NOTES
N401	19	SHIP-TO CITY NAME	M AN 1/30	M 1/30	CITY
N402	156	SHIP-TO STATE/PROVINCE	M AN 2/2	M 2/2	STATE
N403	116	SHIP-TO POSTAL CODE	M AN 5/10	M 5/10	ZIP

TRANSACTION SET:	830 - Planning Schedule for forecast purpose only
SEGMENT:	LIN - Item Identification Detail
LEVEL:	Detail Only
USAGE:	Mandatory
MAX USAGE/LOOPS:	Max Use: As Specified in ANSI ASC X12 Standard
PURPOSE:	To specify basic line item identification data.
EXAMPLES:	**LIN**PO*8483*BP*185977*VN*7116-1050~**

ELEMENT ID	ELEMENT NUMBER	NAME	ANSI FEATURES	AFL Requirement	NOTES
LIN01	350	ASSIGNED IDENTIFIER	O AN 1/6		Not Used
LIN02	235	PRODUCT/SERVICE ID QUALIFIER	M ID 2/2	M 2/2	“PO” for Buyer Purchase Order Number
LIN03	234	PRODUCT/SERVICE ID	M AN 1/30	M 1/30	Purchase Order Number
LIN04	235	PRODUCT/SERVICE ID QUALIFIER	O ID 2/2	M 2/2	"BP" for Buyer Part Number
LIN05	234	PRODUCT/SERVICE ID	C AN 1/30	M 1/30	AFL Part Number
LIN06	235	PRODUCT/SERVICE ID QUALIFIER	O ID 2/2	O 2/2	"VP" for Vendor (Supplier) Part Number
LIN07	234	PRODUCT/SERVICE ID	C AN 1/30	C 1/30	Supplier Part Number (if available)

TRANSACTION SET:	830 - Planning Schedule for forecast purpose only
SEGMENT:	UIT - Unit Detail
LEVEL:	LIN Loop
USAGE:	Mandatory
MAX USAGE/LOOPS:	Max Use: As Specified in ANSI ASC X12 Standard
PURPOSE:	To specify item unit data.
EXAMPLES:	**UIT*EA~**

ELEMENT ID	ELEMENT NUMBER	NAME	ANSI FEATURES	AFL Requirement	NOTES
UIT01	355	UNIT OF MEASURE CODE	M ID 2/2	M 2/2	Any valid X12 UOM
UIT02	212	UNIT PRICE	C R 1/14		Not Used
UIT03	639	BASIS UNIT PRICE CODE	O ID 2/2		Not Used

TRANSACTION SET:	830 - Planning Schedule for forecast purpose only
SEGMENT:	FST - Forecast Schedule
LEVEL:	Detail Only
USAGE:	Mandatory
MAX USAGE/LOOPS:	MAX USE: 256
PURPOSE:	To specify forecasted dates and quantities
EXAMPLES:	**FST*15000*D*W*040414*****~**

ELEMENT ID	ELEMENT NUMBER	NAME	ANSI FEATURES	AFL FILE LENGTH	FIELDDATA/COMMENTS
FST01	380	QUANTITY	M R 1/15	M 1/10	
FST02	680	FORECAST SCHEDULE	M ID 1/1	M 1/1	“A” for Past Due "C" for Firm Forecast “D” for Planning Forecast
FST03	681	FORECAST TIMING	M ID 1/1	M 1/1	"D" for Discrete; ‘W’ for Weekly Bucket, “M” for Monthly, or ‘F’ for Flexible Interval
FST04	373	DATE	M DT 6/6	M 6/6	Date (YYMMDD)
FST05	373	DATE	O DT 6/6	C 6/6	Date (YYMMDD)
FST06	374	DATE/TIME QUALIFIER	O ID 3/3		Not Used
FST07	337	TIME	O T6 4/6		Not Used
FST08	128	REFERENCE NO. QUALIFIER	O ID 2/2		Not Used
FST09	127	REFERENCE NUMBER	O AN 1/30		Not Used

TRANSACTION SET:	830 - Planning Schedule for forecast purpose only
SEGMENT:	SHP - Shipped/Received Information
LEVEL:	Detail Only
USAGE:	Optional
MAX USAGE/LOOPS:	Max Use: As Specified in ANSI ASC X12 Standard
PURPOSE:	To specify ship and/or receipt information

EXAMPLES: **SHP*01*1500*050*040414~**
SHP*02*432*051*040101040414~**

COMMENTS: If "02 - Cumulative" is used in SHP01; SHP04 and SHP06 are used to represent the cumulative received date range.

ELEMENT ID	ELEMENT NUMBER	NAME	ANSI FEATURES	AFL Requirement	NOTES
SHP01	673	QUANTITY QUALIFIER	O ID 2/2	O 2/2	"01" for Discrete Quantity "02" for Cumulative Quantity
SHP02	380	QUANTITY	C R 1/15	C 1/10	For "01" SHP01, quantity is last quantity received For "02" SHP02, quantity is YTD quantity received
SHP03	374	DATE/TIME QUALIFIER	C ID 3/3	C 3/3	"050" For Quantity Received "051" for Cumulative Quantity Start Date
SHP04	373	DATE	C DT 6/6	C 6/6	For "01" SHP01, date is last receipt date YYMMDD For "02" SHP01, date is first day of current year (Cumulative Quantity Start Date) YYMMDD
SHP05	337	TIME	O T6 4/6		Not Used
SHP06	373	DATE	O DT 6/6	C 6/6	Not used for "01" in SHP01 For "02" in SHP01, this is the Cumulative Quantity End Date
SHP07	337	TIME	O T6 4/6		Not Used

TRANSACTION SET:	830 - Planning Schedule for forecast purpose only
SEGMENT:	CTT - Transaction Totals
LEVEL:	Summary Only
USAGE:	Mandatory
MAX USAGE/LOOPS:	Max Use: As Specified in ANSI ASC X12 Standard
PURPOSE:	To transmit a hash total for a specific element in the transaction set.
EXAMPLES:	CTT*5*580~
COMMENTS:	Number of Line Items (CTT01) is the accumulated line items. Hash Total (CTT02) is total quantities contained in FST segments.

ELEMENT ID	ELEMENT NUMBER	NAME	ANSI FEATURES	AFL Requirement	NOTES
CTT01	354	NUMBER OF LINE ITEMS	O N0 1/6	M 1/6	Accumulated line items
CTT02	347	HASH TOTAL	O R 1/10	O 1/10	Total quantities contained in FST segments
CTT03	81	WEIGHT	O R 1/8		Not Used
CTT04	355	UNIT OF MEASURE CODE	C ID 2/2		Not Used
CTT05	183	VOLUME	O R 1/8		Not Used
CTT06	355	UNIT OF MEASURE CODE	C ID 2/2		Not Used
CTT07	352	DESCRIPTION	O AN 1/80		Not Used

TRANSACTION SET:	830 - Planning Schedule for forecast purpose only
SEGMENT:	SE - Transaction Set Trailer
LEVEL:	Summary Only
USAGE:	Mandatory
MAX USAGE/LOOPS:	Max Use: As Specified in ANSI ASC X12 Standard
PURPOSE:	To indicate the end of the transaction set and provide the count of the transmitted segments, including the beginning (ST) and the ending (SE) segments.
EXAMPLES:	**SE*16*0256 ~**
COMMENTS:	SE is the last segment of each transaction set.

ELEMENT ID	ELEMENT NUMBER	NAME	ANSI FEATURES	AFL Requirement	NOTES
SE01	96	NUMBER OF INCLUDED SEGMENTS	M N0 1/6	M 1/6	
SE02	329	TRANSACTION SET CONTROL NUMBER	M AN 4/9	M 4/9	Must match the Transaction Set Control Number contained in the ST02 segment

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TRANSACTION SET:	830 - Planning Schedule for forecast purpose only
SEGMENT:	GE - Functional Group Trailer
LEVEL:	Summary Only
USAGE:	Mandatory
MAX USAGE/LOOPS:	Max Use: As Specified in ANSI ASC X12 Standard
PURPOSE:	To indicate the end of a functional group and to provide control information.
EXAMPLES:	GE*1*5~
COMMENTS:	The data interchange control number is the same as in the Functional Group Header (GS).

ELEMENT ID	ELEMENT NUMBER	NAME	ANSI FEATURES	AFL Requirement	NOTES
GE01	97	NUMBER OF INCLUDED SETS	M N0 1/6	M 1/6	
GE02	28	DATA INTERCHANGE CONTROL NUMBER	M N0 1/9	M 1/9	Must match the Data Interchange Control Number contained in the GS06 segment.

TRANSACTION SET: 830 - Planning Schedule for forecast purpose only

SEGMENT: IEA - Interchange Control Trailer

LEVEL: Summary Only

MAX USAGE/LOOPS: Max Use: As Specified in ANSI ASC X12 Standard

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

EXAMPLES: **IEA*5*000000735~**

COMMENTS: The interchange control number is the same as in the Interchange Control header (ISA).

ELEMENT ID	ELEMENT NUMBER	NAME	ANSI FEATURES	AFL Requirement	NOTES
IEA01	I16	NUMBER OF INCLUDED GROUPS	M N0 1/5	M 1/6	
IEA02	12	INTERCHANGE CONTROL NUMBER	M N0 9/9	M 9/9	Must be identical to the Interchange Control # contained in ISA13

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TRANSACTION SET: 830 - Planning Schedule for forecast purpose only

Segments Not Used

The following segments are not used in the AFL implementation of the 830 - Planning Schedule for forecast purpose only.

N2	Additional Name Information
NTE	Note/Special Instruction
CUR	Currency
REF	Reference Numbers
PER	Administrative Communications Contact
TAX	Sales Tax Reference
FOB	FOB Related Instructions
CTP	Pricing Information
SSS	Special Services
CSH	Header Sale Condition
ITD	Terms of Sale/Deferred Terms of Sale
DTM	Date/Time Reference
PID	Product/Item Description
MEA	Measurements
PWK	Paperwork
PKG	Marking, Packaging, Loading
TD1	Carrier Details (Quantity/Weight)
TD5	Carrier Details (Routing Sequence/TransitTime)
TD3	Carrier Details (Equipment)
TD4	Carrier Details (Special Handling/Hazardous Materials)
MAN	Marks and Numbers
SLN	Subline Item Detail
PO3	Additional Item Detail
PO4	Item Physical Details
PRS	Part Release Status
SQD	Destination Quantity
SDP	Ship Delivery Pattern
ATH	Resource Authorization

ASC X12 Format	Interpretation
GS*PS*AFLAM0306*003012549*040418*0745*93*X*003040~	Group = Planning Schedule AFL Sender Id = AFLAM0306 Receiver ID = 003012549 Run Date = 040418 Run Time = 0745 Control #93 ANSI Format Ver/Rel = 003040
ST*830*0498~	Transaction Set 830 Control #0498
BFR*05*00318017041229**DL*A*900101*041231*040417***16614~	Status = Replace (05) Sequence within Group = 00318017041229 Delivery Based Forecast Actual Discrete Quantities Horizon Start Date = 040504 Horizon End Date = 052804 Date Forecast Generated = 040504 Purchase Order = 16614
N1*ST*AW1 Paccar Programs*92*AFLPAC~	Ship To = AW1 Paccar Programs Buyer Assigned Ship-To Code = AFLPAC
N3*AFL Automotive LP AW1*121 Industrial Blvd.~	Ship-To Address: AFL Automotive LP AW1, 121 Industrial Blvd.
N4*Del Rio*TX*78840~	Ship-To City: Del Rio Ship-To State: TX Ship-To Postal Code: 78840
N1*SU*TYCO ELECTRONICS CORP - 003180*91*003180~	Supplier = TYCO ELECTRONICS CORP – 003180 Buyer Assigned: 003180
N3*P.O. Box 3608~	Ship_From: P.O. Box 3608
N4*Harrisburg*PA*17105-360~	Ship-From City: Harrisburgh Ship-From State: PA Shipfrom Postal code: 17105-360
LIN**PO*16614*BP*186011*VN*41274~	Purchase Order Number: 16614 Buyers Part # 186011 Vendor Part#41274
UIT*EA~	Unit of Measure = EA
FST*132000*D*D*040510****~	Planning Forecast for 132000 Discrete Pieces by 5-10-04
FST*143000*D*D*040524****~	Planning Forecast for 143000 Discrete Pieces by 5-24-04
FST*176000*D*D*040628****~	Planning Forecast for 176000 Discrete Pieces by 6-28-04
SHP*01*11000*050*040416~	Last Quantity Received = 11000 on 4/16/04
SHP*02*121000*051*040416~	Cumulative Quantity YTD = 121000
CTT*1*451000~	Number of LIN segments = 1 Total Qty on FSTs = 451000
SE*1836*0510~	Total # of Records = 1836 Transaction Set Control #0510
GE*13*93~	Group = 13 Control #93
IEA*1*900000042~	IEA01= 1 IEA02 = 900000042