Pratt & Whitney
A United Technologies Company

Pratt & Whitney Canada
Une société de United Technologies / A United Technologies Company

Schedule "A" to EDI Agreement

EDI Specifications Manual

EDI Specifications Manual (Rel.1.0 - 04/2015)

ELECTRONIC DATA INTERCHARGE

Specifications Manual

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Introduction

EDI

P ratt & Whitney America (PWA) and Pratt & Whitney Canada (P&WC) would like to thank you for participating in our Electronic Data Interchange (EDI) program. As part of the One Company initiative between PWA and P&WC, we are merging our requirements for our suppliers into one system, Supply Network Collaboration (SNC). With this implementation, we will be providing a combined Forecast Report with all of our requirements. This will be available via SNC and also via EDI.

This manual was prepared by PWA and P&WC (further referred to as P&W) to communicate to suppliers the necessary standards for exchanging documents electronically with P&W's Procurement system. All specifications conform to the American National Standards Institute (ANSI) Electronic Data Interchange (EDI) X12 standards.

The ability to print an EDI document provides some benefits; however, the true benefits of EDI are achieved by integrating EDI with your internal computer systems. This manual will provide the necessary details to allow Information Systems personnel to fully integrate EDI. A detailed breakdown of the segments and elements used is provided.

830 - Forecast Schedule - P&W Outbound

This document only applies to material requirements that are managed by our MRP system. The Forecast Schedule transaction is a full list of all production parts and their shipment schedules for firm and planned orders. The planned orders are identified by a literal of "FORECAST" in the purchase order number element.

Notification of Change

A new schedule will be transmitted each week.

1. **Full Forecast Schedule (weekly) -** Your company will receive a full list of parts with all changes identified at the purchase order level each week. The full schedule is referred to as a Forecast Schedule.

The following is an example of a P&W Forecast Schedule/ Revision Schedule in the ANSI X12 version 4010 format.

Sample Forecast Schedule

```
BFR~00~P & W Forecast Report~~PD~A~20150504~~20150504~@
N1~BY~Pratt & Whitney~92~P&W Contact Person@
PER~BD~P&W Buyer~TE~888-888-8888@
N1~SE~P&W Supplier Company@
REF~IA~12345@
PER~SR~Sales Contact@
LIN~~BP~3027378~PD~Bearing@
REF~PE~0001@
QTY~87~1147@
SLN~5500031004~00060~I~1184~EA@
FST~9~C~C~20150421@
FST~8~C~C~20150428@
FST~4~C~C~20150605@
FST~16~C~C~20150720@
FST~31~D~M~20150901@
FST~32~D~M~20151101@
FST~27~D~M~20160101@
FST~27~D~M~20160401@
FST~98~D~Q~20160501@
FST~93~D~Q~20160801@
FST~42~D~A~20180430@
LIN~~BP~3027378~PD~Bearing@
REF~PE~0001@
SLN~FORECAST~00000~I~200~EA@
FST~40~D~M~20090429@
FST~60~D~M~20090429@
FST~100~D~A~20100429@
LIN~~BP~3027378~PD~Bearing@
REF~PE~0017@
SLN~4500000171~00020~A~15~EA@
FST~5~C~C~20090327@
FST~10~C~C~20090427@
CTT~3@
```

Forecast Schedule Structure

The following table lists the ANSI X12 version 4010 segments which are being used to generate a Forecast Schedule/Schedule Revision from P&W's procurement system. Only the segments being used are listed. A detailed description of each segment will follow this section.

Header Area

Seg	Pos	Segment Name	Description of P&WC use
BFR	020	Beginning Segment - Planning Schedule	General Schedule information
Loop ID - N1 (1st occurrence)			
N1	230	Name	Buying party name.
PER	280	Administrative Communications Contact	P&W contact name.
Loop ID - N1 (2nd occurrence)			
N1	230	Name	Selling party name.
REF	270	Reference Identification	P&W assigned supplier code.
PER	280	Administrative Communications Contact	Selling party contact name.

Detail Area Loop (1 to 100,000 occurrences)

LIN	010	Item Identification Detail	Part number and description
REF	140	Reference Identification	Ship to plant number
QTY	220	Quantity	Quantity of parts already received
Loop ID - SLN (1 to 200 occurrences)			
SLN	300	Subline Item Detail	Purchase Order and update indicator
Loop ID - FST (1 to 1000 occurrences)			
FST	410	Forecast Schedule	Schedule information

Summary Area

CTT	010	Transaction Totals	Total LIN segments

BFR - Beginning Segment for Planning Schedule

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

Sample Segment
| ```
    1   2                        3 4  5 6        7
    ↓   ↓                        ↓ ↓  ↓ ↓        ↓
 BFR~00~P & W Forecast Report~ ~PD~A~20080720~ ~

    8         9       N/L
    ↓         ↓        ↓
   20080727~20080727@
``` |

ANSI X.12 version 4010					P&WC Usage	
RD	Elem	R	Tp	Element Name	Element Value	PEL
1	353	M	ID	Transaction Set Purpose Code	'00'=Original - used to indicate this is a Forecast Schedule type transaction.	2
2	127	C	AN	Reference Identification	Literal "P & W Forecast Report"	23
3	328	C	AN	Release Number	Not used	
4	675	M	ID	Schedule Type Qualifier	'PD' = Planned Delivery Based	2
5	676	M	ID	Schedule Quantity Qualifier	'A' = Actual Discrete Quantities	1
6	373	M	DT	Date	Schedule start date	8
7	373	O	DT	Date	Not used	
8	373	M	DT	Date	Generated date	8

N1 - Name (Buying Party)

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

Sample Segment
| ```
  1   2              3   4               N/L
  ↓   ↓              ↓   ↓                ↓
N1~BY~Pratt & Whitney~92~P&W Contact Person@
``` |

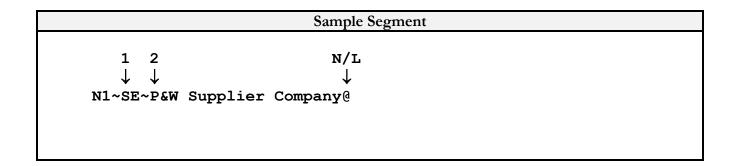| ANSI X.12 version 4010					P&WC Usage	
RD	Elem	R	Tp	Element Name	Element Value	PEL
1	98	M	ID	Entity Identifier Code	'BY' = Buying Party (Purchaser)	2
2	93	C	AN	Name	'Pratt & Whitney'	22
3	66	C	ID	Identification Code Qualifier	'92' = Assigned by Buyer or Buyer's Agent	2
4	67	C	AN	Identification Code	"P&W Contact Person"	11

PER - Administrative Communications Contact (Buyer Name and Number)

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

Sample Segment
1   2   3   4   N/L   ↓   ↓   ↓   ↓   ↓ PER~BD~P&W Buyer~TE~888-888-8888@

ANSI X.12 version 4010					P&WC Usage	
RD	Elem	R	Tp	Element Name	Element Value	PEL
1	366	M	ID	Contact Function Code	'BD' = Buyer Name or Department	2
2	93	O	AN	Name	Literal "P&W Buyer"	20
3	365	C	ID	Communication Number Qualifier	'TE' = Telephone	2
4	364	C	AN	Communication Number	Literal "888-888-8888"	16

N1 - Name (Selling Party)

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

Sample Segment
| ```
    1   2                       N/L
    ↓   ↓                        ↓
  N1~SE~P&W Supplier Company@
``` |

ANSI X.12 version 4010					P&WC Usage	
RD	Elem	R	Tp	Element Name	Element Value	PEL
1	98	M	ID	Entity Identifier Code	'SE' = Selling Party	2
2	93	C	AN	Name	Supplier name line 1	35

REF - Reference Identification (Vendor Number)

Purpose: To specify identifying information.

Sample Segment
| ``` 
     1   2   N/L
     ↓   ↓    ↓
   REF~IA~12345@

``` |

ANSI X.12 version 4010					P&WC Usage	
RD	Elem	R	Tp	Element Name	Element Value	PEL
1	128	M	ID	Reference Identification Qualifier	'IA' = Internal Vendor Number	2
2	127	C	AN	Reference Identification	P&W Rollup Vendor Number	10

PER - Administrative Communications Contact (Salesperson)

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

Sample Segment
| ```
    1   2              N/L
    ↓   ↓               ↓
 PER~SR~Sales Contact@
``` |

ANSI X.12 version 4010					P&WC Usage	
RD	Elem	R	Tp	Element Name	Element Value	PEL
1	366	M	ID	Contact Function Code	'SR' = Sales Representative or Department	2
2	93	O	AN	Name	Literal "Sales Contact"	30

LIN - Beginning Segment for Forecast Schedule (Part Number)

Purpose: To specify basic item identification data.

Sample Segment
| ```
       2   3        4   5       N/L
       ↓   ↓        ↓   ↓        ↓
  LIN~  ~BP~3027378~PD~Bearing@
       ↑
       1
``` |

ANSI X.12 version 4010					P&WC Usage	
RD	Elem	R	Tp	Element Name	Element Value	PEL
1	350	O	AN	Assigned Identification	Not used	
2	235	M	ID	Product/Service ID Qualifier	'BP' = Buyer's Part Number	2
3	234	M	AN	Product/Service ID	P&W Material Number	18
4	235	C	ID	Product/Service ID Qualifier	'PD' = Part Number Description	2
5	234	C	AN	Product/Service ID	Material Short Text	40

REF - Reference Identification (Plant)

Purpose: To specify identifying information.

Sample Segment
| ```
      1   2
      ↓   ↓
   REF~PE~0001@
             ↑
           N/L
``` |

ANSI X.12 version 4010					P&WC Usage	
RD	Elem	R	Tp	Element Name	Element Value	PEL
1	128	M	ID	Reference Identification Qualifier	'PE' = Plant Number	2
2	127	C	AN	Reference Identification	P&W plant number	4

QTY - Quantity (Received)

Purpose: To specify quantity information.

Sample Segment
| ```
    1   2   3
    ↓   ↓   ↓
QTY~87~120~EA@
              ↑
            N/L
``` |

ANSI X.12 version 4010					P&WC Usage	
RD	Elem	R	Tp	Element Name	Element Value	PEL
1	673	M	ID	Quantity Qualifier	'87' = Quantity Received	2
2	380	C	R	Quantity	Quantity received for this order in format 999999999.999	13
3	C001	O		Composite Unit of Measure	See below	
3a	355	O	ID	Unit or Basis for Measurement Code	Unit or Base of measure	2

SLN - Subline Item Detail (PO Number)

Purpose: To specify product subline detail item data.

Sample Segment
| ```
      1              2       3  4   5a
      ↓              ↓       ↓  ↓   ↓
   SLN~4500000071~00020~I~250~EA@
                                ↑
                               N/L
``` |

ANSI X.12 version 4010					P&WC Usage	
RD	Elem	R	Tp	Element Name	Element Value	PEL
1	350	M	AN	Assigned Identification	Either P&W assigned Purchase Order (PO) number or Scheduling Agreement (SA) number or the literal "FORECAST" to indicate that this is a planned schedule.	10
2	350	O	AN	Assigned Identification	P&W assigned PO Item number or assigned SA Item number. If "FORECAST" is in SLN01 then this element will be the literal "00000".	5
3	662	M	ID	Relationship Code	'I' = Included - used to identify PO/item not changed this week (Full schedule only)	1
4	380	C	R	Quantity	Total quantity for all schedule line	8
5	C001	C		Composite Unit of Measure	See below	
5a	355	M	ID	Unit or Basis for Measurement Code	Unit or Basis of measure	2

FST - Forecast Schedule

Purpose: To specify the forecasted dates and quantities.

Sample Segment
| ```
      1    2 3 4
      ↓    ↓ ↓ ↓
  FST~20~C~C~20080327@
                   ↑
                  N/L
``` |

ANSI X.12 version 4010					P&WC Usage	
RD	Elem	R	Tp	Element Name	Element Value	PEL
1	380	M	R	Quantity	Scheduled Quantity in format 999999999.999	13
2	680	M	ID	Forecast Qualifier	'C' = Firm 'D' = Planning	1
3	681	M	ID	Forecast Timing Qualifier	'C' = Daily 'W' = Weekly Bucket (Monday through Sunday) 'M' = Monthly Bucket (Calendar Months) 'Q' = Quarterly (Calendar Quarters) 'A' = Annually (Calendar Year)	1
4	373	M	DT	Date	If FST03 = 'C' (Daily) then this is the required delivery date. Otherwise, it is the first date of the forecasted bucket. Format is CCYYMMDD.	8

CTT - Transaction Totals

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

Sample Segment

<pre>   1
        ↓
   CTT~1@
         ↑
       N/L</pre>

ANSI X.12 version 4010					P&WC Usage	
RD	Elem	R	Tp	Element Name	Element Value	PEL
1	354	M	N0	Number of Line Items	Number of LIN segments	6