830 Planning Schedule
EDI Implementation Guide

Revision 1.3

02 / 2011

edi-team@behrgroup.com

Behr Group

830 Planning Schedule EDI Implementation Guide

830 Planning Schedule

1 Introduction

These guidelines include information about the message and the specifications for the information contained in it.

2 Transactions Standard

The ANSI standard used by Behr is ANSI ASC X.12, Version Release 004010.

3 Transaction Frequency

Behr will send 830 messages to its suppliers once a week and additionally as needed. The data will include both firm and planed quantities for the supplier. We expect a corresponding 997 (Functional Acknowledgement) for all transmissions.

4 Envelope data and communication network

Data communication to the trading partner is done either through the GXS VAN, an interconnect between the GXS VAN and the trading partner's VAN, or OFTP via ISDN. The messages will use ISA / IEA envelope structure.

5 Segments list

The message to be sent consists of the following data segments:

5.1 ISA – Interchange Control Header

Level: Transmission
Usage: Mandatory
Purpose: To start and identify an interchange of one or more functional groups and interchange related control segments.

Pos	Seg	Name	Req	Max	Loop
0000	ISA	Interchange Control Header	M	1	

Seq	Elem	Name	Attributes		
01	I01	Authorization Information Qualifier *Use 00*	M	ID	2/2
02	I02	Authorization Information *Use ten spaces*	M	AN	10/10
03	I03	Security Information Qualifier *Use 00*	M	ID	2/2
04	I04	Security Information *Use ten spaces*	M	AN	10/10
05	I05	Interchange ID qualifier *Use 01 for Duns, ZZ mutually defined*	M	ID	2/2
06	I06	Interchange Sender ID *Duns/ Mutually defined left justified*	M	AN	15/15
07	I05	Interchange ID qualifier *Use 01 for Duns, ZZ mutually defined*	M	ID	2/2
08	I07	Interchange Receiver ID *Duns / Mutually defined left justified*	M	AN	15/15
09	I08	Interchange Date *Transmission/Creation Date = YYMMDD*	M	DT	6/6
10	I09	Interchange Time *Transmission/Creation Time*	M	TM	4/4
11	I10	Interchange Control Standards Identifier *Use U for USA*	M	ID	1/1
12	I11	Interchange Control Version Number *00401*	M	ID	5/5
13	I12	Interchange Control Number *Control number. Not repeated within one year.*	M	N0	9/9
14	I13	Acknowledgement Requested *Use 1 for acknowledgement expected*	M	ID	1/1
15	I14	Test Indicator *Use P for Production*	M	ID	1/1
16	I15	Sub Element separator *Use **			

Example:

```
ISA*00*          *00*          *ZZ*BEHRCODE*01*VENDORDUNS*030430*1200*U*00401*000000001*1*P**
```

5.2 GS – Functional Group Header

Level: Header
Usage: Mandatory
Purpose: To start and identify a group of related transaction sets and provide control and application identification information

Pos	Seg	Name	Req	Max	Loop
0005	GS	Functional Group Header	M	1	

Seq	Elem	Name	Attributes		
01	479	Functional Identifier Code *Use PS*	M	ID	2/2
02	142	Application Sender's Code *Senders Interchange code*	M	AN	2/15
03	124	Application Receiver's Code *Receivers Interchange Code*	M	AN	2/15
04	29	Data interchange Date *Creation/Transmission Date = CCYYMMDD*	M	DT	8/8
05	30	Data Interchange Time *Creation/Transmission Time*	M	TM	4/8
06	28	Interchange Control Number *Starts on 1 and increments by one for new loop*	M	N0	1/9
07	455	Responsible Agency *X for ANSI ASC X.12 Format*	M	ID	1/2
08	480	Version/Release number *004010*	M	ID	1/12

Example:

```
GS*PS*BEHRCODE*VENDORDUNS*20030430*1200*1*X*004010
```

5.3 ST – Transaction Set Header

Level: Header
Usage: Mandatory
Purpose: To indicate a start of a transaction set and to assign a control number

Pos	Seg	Name	Req	Max	Loop
0010	ST	Transaction Set Header	M	1	

The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g. 830 selects the X12.14 Planning Schedule with Release Capability).

Seq	Elem	Name	Used	Attributes		
01	143	Transaction Set Identifier Code	Y	M	ID	3/3
02	329	Transaction Set Control number	Y	M	AN	4/9

Example:

```
ST*830*59826
```

5.4 BFR – Beginning Segment for Planning Schedule

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

Pos	Seg	Name	Req	Max	Loop
0020	BFR	Beginning Segment for Planning Schedule	M	1	

Seq	Elem	Name	Used	Attributes		
01	353	Transaction Set Purpose Code *05 = Replace*	Y	M	ID	2/2
02	127	Reference Number (Not Used)		C	AN	1/30
03	328	Release Number *Release number, will not repeat within a year.*	Y	C	AN	1/30
04	675	Schedule Type Qualifier *AD = Authorized Delivery Based*	Y	M	ID	2/2
05	676	Schedule Quantity Qualifier *A = Actual Discrete Quantities*	Y	M	ID	1/1
06	373	Date *Planning Start Date = CCYYMMDD*	Y	M	DT	8/8
07	373	Date *Planning End Date = CCYYMMDD*	Y	O	DT	8/8
08	373	Date *Date Release Generated = CCYYMMDD*	Y	M	DT	8/8

Example:

```
BFR*05**000138*AD*A*20030430*20030730*20030430
```

5.5 N1 – Name

Level: Header
Usage: Optional
Purpose: To identify a party by type of organization name and code

Pos	Seg	Name	Req	Max	Loop
0240	N1	Name	O	1	200

Seq	Elem	Name	Used	Attributes		
01	98	Entity Identifier Code *SF = Ship From* *SU = Supplier* *ST = Unloading Point (may equal plant code)* *MI = Behr Plant Code*	Y	M	ID	2/3
02	93	Name *Organization name*	Y	O	AN	1/60
03	66	Identification Code Qualifier *92 = Assigned by the buyer*	Y	C	ID	2/2
04	67	Identification Code *Supplier number or Customer plant code*	Y	C	AN	2/80

Example:

```
N1*SF*Supplier Name*92*21000123
N1*SU*Supplier Name*92*21000123
N1*ST*Behr*92*G1234
N1*MI*Behr*92*1623
```

Notes:

The N1 SF is the Behr supplier code identifying your particular plant that the material should be shipped from or that is the manufacturer.
For small suppliers both the SF and SU numbers may be the same. For larger suppliers there may be many different SF numbers for various locations.

The N1 SU is Behr's "ordering address" equal to the supplier code in Behr's system. (Not your DUNS number).

The N1 ST represents the storage location of the plant where material is being shipped to.

The N1 MI represents the Behr plant code placing the order.

All four of these N1 segments content should be returned to Behr in the ASN (856) exactly as you receive them in the 830 message.

5.6 LIN – Item Identification

Level: Detail
Usage: Mandatory
Purpose: To specify basic item identification data

Pos	Seg	Name	Req	Max	Loop
0350	LIN	Item Identification	M	1	1

Seq	Elem	Name	Used	Attributes		
01	350	Assigned Identification		O	AN	1/20
02	235	Product/Service ID Qualifier *BP = Buyers part number*	Y	M	ID	2/2
03	234	Product/Service ID *Product Part number*	Y	M	AN	1/48
04	235	Product/Service ID Qualifier *PO = Purchase Order number*	Y	M	ID	2/2
05	234	Product/Service ID *Purchase Order number*	Y	M	AN	1/48
06	235	Product/Service ID Qualifier VP = Vendors Part Number	N	O	ID	2/2
07	234	Product/Service ID	N	O	AN	1/48

Example:

```
LIN**BP*A1234001*PO*5500000123
```

5.7 UIT – Unit Detail

Level: Detail
Usage: Mandatory
Purpose: To specify item unit data

Pos	Seg	Name	Req	Max	Loop
360	UIT	Item Identification	M	1	1

Seq	Elem	Name	Used	Attributes		
01	350	Assigned Identification	M	M	ID	2/2

Example:

```
UIT*PC
UIT*LB
```

5.8 PER – Administrative Communication Contact

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

Pos	Seg	Name	Req	Max	Loop
480	PER	Administration Communications Contact	O	6	>1

Seq	Elem	Name	Used	Attributes		
01	366	Contact Function Code *EX = Expeditor*	Y	M	ID	2/2
02	93	Name *The Name of the Contact Person*	Y	O	AN	1/19
03	365	Communication Number Qualifier *TE = Telephone* *EM = E-mail*	Y	O	ID	2/2
04	364	Communication Number *Phone Number or Email address*	Y	C	AN	10/10

Example:

```
PER*EX*Smith, Brad
```

5.9 FST – Forecast Schedule

Level: Detail
Usage: Mandatory
Purpose: To specify forecast dates and quantities

Pos	Seg	Name	Req	Max	Loop
0780	FST	Forecast Schedule	O	1	>1

Seq	Elem	Name	Used	Attributes		
01	380	Quantity *Requested quantity*	Y	M	R	1/15
02	680	Forecast Qualifier *C = Firm* *D = Planning*	Y	M	ID	1/1
03	681	Forecast Timing Qualifier *D = Daily* *W = Weekly* *M = Monthly*	Y	M	ID	1/1
04	373	Date *Schedule line start date = CCYYMMDD*	Y	M	DT	8/8
05	373	Date *Schedule line end date = CCYYMMDD*	Y	M	DT	8/8
06	374	Date/Time Qualifier		C	ID	3/3
07	337	Time		C	TM	4/8
08	128	Reference Number Qualifier		C	ID	2/3
09	127	Reference Number		C	AN	1/30
10	783	Planning schedule type code		O	ID	2/2

Example:

```
FST*100*C*D*20030430*20030506
FST*100*D*W*20030430*20030506
FST*100*D*M*20030601*20030630
```

5.10 SHP – Shipped/Received Information

Level: Detail
Usage: Mandatory
Purpose: To specify shipment and/or receipt information

Pos	Seg	Name	Req	Max	Loop
0880	SHP	Shipped/Received Information	O	1	25

Seq	Elem	Name	Used	Attributes		
01	673	Quantity Qualifier *01=Last Receipt Quantity*	Y	O	ID	2/2
02	680	Quantity *Quantity received*	Y	C	R	1/15
03	374	Date/Time Qualifier *011 = Received on this date & time*	Y	C	ID	3/3
04	373	Date *Date received =CCYYMMDD*	Y	O	DT	8/8
05	337	Time		O	TM	4/8
06	373	Date		O	DT	8/8
07	337	Time		O	TM	4/8

Example:

```
SHP*01*2100*011*20030401
```

5.11 SHP – Shipped/Received Information

Level: Detail
Usage: Mandatory
Purpose: To specify shipment and/or receipt information

Pos	Seg	Name	Req	Max	Loop
0880	SHP	Shipped/Received Information	O	1	25

Seq	Elem	Name	Used	Attributes		
01	673	Quantity Qualifier *02= Quantity Received*	Y	O	ID	2/2
02	680	Quantity *Cumulative Quantity Received*	Y	C	R	1/15
03	374	Date/Time Qualifier *050=Received*	Y	C	ID	3/3
04	373	Date *Date received = CCYYMMDD*	Y	O	DT	8/8
05	337	Time		O	TM	4/8
06	373	Date Date *received = CCYYMMDD*		O	DT	8/8
07	337	Time		O	TM	4/8

Example:

```
SHP*02*2200*050*20030501
```

5.12 REF – Reference Numbers

Level: Detail
Usage: Optional
Purpose: To specify a particular receiving dock for materials being shipped

Pos	Seg	Name	Req	Max	Loop
0890	REF	Reference Number (SID / Packing Slip)	O	1	12

Seq	Elem	Name	Used	Attributes		
01	128	Reference Number Qualifier *SI = SID No / Packing Slip*	Y	O	ID	2/2
02	127	Reference Number *Last Packing Slip Number Received*	Y	C	R	1/30

Example:

```
REF*SI*0180024536
```

Note:

Although we will be sending you the last packing slip number received for your reference. It is Behr's requirement that scheduling be done against the cumulative quantities being sent and not the last packing slip received.

5.13 CTT – Transaction Totals

Level: Detail
Usage: Mandatory
Purpose: To transmit a hash total for a specific element in the transaction set

Pos	Seg	Name	Req	Max	Loop
0900	CTT	Transaction Totals	O	1	

Seq	Elem	Name	Used	Attributes		
01	354	Number of Line items	Y	M	N0	1/6
02	347	Hash Total		O	R	1/10
03	81	Weight		O	R	1/10
04	355	Unit or Basis for Measurement Code		C	ID	2/2
05	183	Volume		O	R	1/8
06	355	Unit or Basis for Measurement Code		C	ID	2/2
07	352	Description		O	AN	1/80

Example:

```
CTT*1
```

5.14 SE – Transaction Set Trailer

Level: Detail
Usage: Mandatory
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Pos	Seg	Name	Req	Max	Loop
0910	SE	Transaction Set Trailer	M	1	

Seq	Elem	Name	Used	Attributes		
01	96	Number of Included Segments *Total number of segments included in a transaction set including ST and SE segments*	Y	M	N0	1/10
02	329	Transaction Set Control Number *Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set*	Y	M	AN	4/9

Example:

```
SE*13*59826
```

5.15 GE – Functional Group Trailer

Level: Envelope
Usage: Mandatory
Purpose: To indicate the end of a functional group and to provide control information

Pos	Seg	Name	Req	Max	Loop
0950	GE	Functional Group Trailer	M	1	

Seq	Elem	Name	Used	Attributes		
01	97	Number of Transaction Sets Included	Y	M	N0	1/6
02	28	Data Interchange Control Number *Must be identical to the same data element in the associated group header (GS06)*	Y	M	N0	1/9

Example:

```
GE*1*1
```

5.16 IEA – Interchange Control Trailer

Level: Envelope
Usage: Mandatory
Purpose: To define the end of an interchange of one or more functional groups and interchange-related control segment.

Pos	Seg	Name	Req	Max	Loop
1000	IEA	Interchange Control Trailer	M	1	

Seq	Elem	Name	Used	Attributes		
01	I16	Number of Included Functional Groups	Y	M	N0	1/5
02	I12	Interchange Control Number *Must match ISA13*	Y	M	N0	9/9

Example:

```
IEA*1*000000001
```

830 Planning Schedule Example

ISA*00* *00* *ZZ*BEHRCODE *01*VENDORDUNS *100323*0833*U*00401*045907604*0*P*:
GS*PS*BEHRCODE*VENDORDUNS*20100323*0833*1*X*004010
ST*830*045907604
BFR*05**152*AD*A*20100323*20100929*20100323
N1*SF*YOURCOMPANY*92*0021001234
N1*SU*YOURCOMPANY*92*0001234500
N1*ST*Behr Unloading Point Name*92*G1234
N1*MI*Behr Plant Name*92*1623
LIN**BP*A1234001*PO*5500012345
UIT*PC
PER*EX*Green, Jack
FST*11700*C*D*20100403*20100403
FST*11700*C*D*20100410*20100410
FST*0*C*D*20100412*20100412
FST*11700*C*D*20100417*20100417
FST*0*C*D*20100420*20100420
FST*11700*D*D*20100426*20100426
FST*0*D*D*20100428*20100428
FST*11700*D*D*20100504*20100504
FST*11700*D*D*20100511*20100511
FST*0*D*D*20100513*20100513
FST*11700*D*D*20100519*20100519
FST*0*D*D*20100524*20100524
FST*11700*D*D*20100527*20100527
FST*11700*D*D*20100603*20100603
FST*0*D*D*20100608*20100608
FST*11700*D*D*20100610*20100610
FST*0*D*D*20100615*20100615
FST*11700*D*D*20100617*20100617
FST*0*D*D*20100621*20100621
FST*0*D*D*20100624*20100624
FST*11700*D*D*20100626*20100626
FST*23400*D*D*20100707*20100707
FST*0*D*D*20100708*20100708
FST*11700*D*D*20100715*20100715
FST*0*D*D*20100716*20100716
FST*11700*D*D*20100805*20100805
FST*0*D*D*20100811*20100811
FST*11700*D*D*20100831*20100831
FST*0*D*D*20100906*20100906
FST*11700*D*D*20100929*20100929
SHP*01*11700*011*20100319
SHP*02*93600*050*20100319
REF*SI*LAST-SID1234
CTT*1
SE*44*045907604
GE*1*1
GS*PS* BEHRCODE*VENDORDUNS*20100323*0833*2*X*004010
ST*830*045907605
BFR*05**8*AD*A*20100323*20110131*20100323
N1*SF*YOURCOMPANY*92*0021001234
N1*SU*YOURCOMPANY*92*0001234500
N1*ST*Behr Unloading Point Name*92*G1234
N1*MI*Behr Plant Name*92*1623
LIN**BP*A1234001*PO*5500012345
UIT*PC
PER*EX*Green, Jack
FST*0*C*D*20100323*20100323
FST*27000*C*D*20100324*20100324
FST*13500*C*D*20100329*20100329
FST*27000*C*D*20100403*20100403
FST*0*C*D*20100406*20100406
FST*40500*C*D*20100410*20100410
FST*0*D*D*20100417*20100417
FST*13500*D*D*20100422*20100422

FST*27000*D*D*20100424*20100424
FST*40500*D*D*20100430*20100430
FST*27000*D*D*20100511*20100511
FST*0*D*D*20100512*20100512
FST*40500*D*D*20100515*20100515
FST*0*D*D*20100518*20100518
FST*0*D*D*20100524*20100524
FST*27000*D*D*20100526*20100526
FST*0*D*D*20100529*20100529
FST*27000*D*D*20100601*20100601
FST*27000*D*D*20100607*20100607
FST*0*D*D*20100608*20100608
FST*40500*D*D*20100612*20100612
FST*0*D*D*20100615*20100615
FST*0*D*D*20100621*20100621
FST*27000*D*D*20100622*20100622
FST*0*D*D*20100626*20100626
FST*27000*D*D*20100629*20100629
FST*121500*D*D*20100703*20100703
FST*0*D*D*20100705*20100705
FST*40500*D*D*20100710*20100710
FST*0*D*D*20100712*20100712
FST*0*D*D*20100717*20100717
FST*27000*D*D*20100720*20100720
FST*40500*D*D*20100726*20100726
FST*0*D*D*20100727*20100727
FST*40500*D*D*20100802*20100802
FST*0*D*D*20100803*20100803
FST*67500*D*D*20100809*20100809
FST*0*D*D*20100810*20100810
FST*0*D*D*20100814*20100814
FST*27000*D*D*20100817*20100817
FST*94500*D*D*20100821*20100821
FST*27000*D*D*20100830*20100830
FST*0*D*D*20100831*20100831
FST*67500*D*D*20100904*20100904
FST*54000*D*D*20100911*20100911
FST*54000*D*D*20100920*20100920
FST*0*D*D*20100925*20100925
FST*13500*D*D*20100927*20100927
FST*27000*D*D*20101009*20101009
FST*0*D*D*20101023*20101023
FST*40500*D*M*20101101*20101130
FST*54000*D*M*20101201*20101231
FST*40500*D*M*20110101*20110131
SHP*01*56500*011*20100317
SHP*02*219200*050*20100317
REF*SI*LAST-SID9876
CTT*1
SE*67*045907605
GE*1*2
IEA*2*045907604