

Breaking down the Rocknel Passthrough 856 EDI TRANSACTION

The 856 is an Advanced Shipment Notification (ASN). As the name states it is sent in before a shipment in order to notify Rocknel of what is being physically sent and how it's being sent.

EDI Transaction				
ISA	00*	*00*	*ZZ*MEIRA	*ZZ*ROCKNEL *171009*0624*U*00401*000000119*0*T*>~
GS	SH*MEIRA*ROCKNEL*20171009*062435*119*X*004010~			
1 ST	856*0001~			
2 BSN	00*AR1710031*20171009*0624~			
3 DTM	011*20171009*0624~			
4 DTM	017*20171009*0624~			
5 HL	1**S~			
6 MEA	PD*G*55*LB~			
7 TD1	CTN25*9~			
8 TD5	B*02*LAWS*M~			
9 TD3	TL**654321~			
10 REF	BM*AR1710031~			
11 REF	PK*AR1710031~			
12 N1	ST**92*ROCKNEL~			
13 N1	SF**01*MEIRA~			
14 HL	2*1*I~			
15 LIN	*BP*AKT911B403-XX~			
16 SN1	*3000*EA*66300~			
17 PRF	PASP170822~			
18 CLD	5*600*CTN25~			
19 REF	LS*10041233~			
20 REF	LS*10041234~			
21 REF	LS*10041235~			
22 REF	LS*10041236~			
23 REF	LS*10041237~			
24 HL	3*1*I~			
25 LIN	*BP*12-185C-1-4-XX~			
26 SN1	*2500*EA*66300~			
27 PRF	PASP170822~			
28 CLD	5*500*CTN25~			
29 REF	LS*10041238~			
30 REF	LS*10041239~			
31 REF	LS*10041240~			
32 REF	LS*10041241~			
33 REF	LS*10041242~			
34 CTT	3*5500~			
35 SE	35*0001~			
GE	1*119~			
IEA	1*000000119~			

At first and maybe second glance it looks like gibberish but once you understand the key points it's pretty easy to see what's going on. For the moment let's examine the .csv file that was used to generate this 856 document.

SERIAL	INVOICE_NO	PALETTE_NO	CUST_ODR_NO	ITEM_NO	CONTROL_NO	QTY_PER_BOX	CASE_QTY
10041233	AR1710031	K-00981	PASP170822	AKT911B403-XX	5239150001	600	5
10041234	AR1710031	K-00981	PASP170822	AKT911B403-XX	5239150002	600	5
10041235	AR1710031	K-00981	PASP170822	AKT911B403-XX	5239150003	600	5
10041236	AR1710031	K-00981	PASP170822	AKT911B403-XX	5239150004	600	5
10041237	AR1710031	K-00981	PASP170822	AKT911B403-XX	5239150005	600	5
10041238	AR1710031	K-00981	PASP170822	12-185C-1-4-XX	5238976001	500	5
10041239	AR1710031	K-00981	PASP170822	12-185C-1-4-XX	5238976002	500	5
10041240	AR1710031	K-00981	PASP170822	12-185C-1-4-XX	5238976003	500	5
10041241	AR1710031	K-00981	PASP170822	12-185C-1-4-XX	5238976004	500	5
10041242	AR1710031	K-00981	PASP170822	12-185C-1-4-XX	5238976005	500	5

Effectively 5 boxes of AKT911B403-XX at 600 Pieces per box and 5 boxes of 12-185C-1-4-XX at 500 pieces per box are being sent to Rocknel on Purchase Order "PASP170822".

This is noted on the item level Segments of the 856 HL2 and HL3.

```

14 HL 2*1*I~
15 LIN *BP*AKT911B403-XX~
16 SN1 *3000*EA*66300~
17 PRF PASP170822~
18 CLD 5*600*CTN25~
19 REF LS*10041233~
20 REF LS*10041234~
21 REF LS*10041235~
22 REF LS*10041236~
23 REF LS*10041237~

```

HL2

```

24 HL 3*1*I~
25 LIN *BP*12-185C-1-4-XX~
26 SN1 *2500*EA*66300~
27 PRF PASP170822~
28 CLD 5*500*CTN25~
29 REF LS*10041238~
30 REF LS*10041239~
31 REF LS*10041240~
32 REF LS*10041241~
33 REF LS*10041242~

```

HL3

To fully understand the two Hierarchical Levels below is a breakdown of the segment fields.

14	HL	2*1*1~	Hierachical Level: Segment identifier indicates the start of a Hierachical Level Segment HL ID Number: Identifies the number of the Hierachical Level segment Parent Loop ID: Identifies the parent container to which this HL provides detail to Level Type: Identifies the type of details listed in this HL segment In this case the HL type is ITEM meaning the HL will give info about items
			Item Identification
			BP = Buyer's Part Number (This is stating Rocknel's part number is in use)
			Part Number ROCKNEL Part Number (Rocknel is the Buyer of the part)
15	LIN	*BP*AKT911B403-XX~	Item Detail (Shipment)
			Number of Units Shipped
			Unit or Basis of Measurement Code: EA means EACH Hierachical Level
			Cumulative Quantity: Not used but required,Default set to 66300 effectively meaningless for Rocknel
16	SN1	*3000*EA*66300~	Purchase Order Reference
			Purchase Order Number: PO Number which was used to order the parts
17	PRF	PASP170822~	Load Detail: Load Detail Segement Identifier
			Number of line items: Number of boxes per HL segment
			Quantity per line item
			Unit of measure code: CTN25 is container
18	CLD	5*600*CTN25~	Reference Number: Refrence Segement Identifier
			Reference Qualifer: LS = Bar-Coded Serial Number
			Reference Number: Container Serial Number
19	REF	LS*10041233~	

It's key to note however that Unlike HL2 and HL3 HL1 does not contain parts and part numbers as the level type of HL1 is SHIPMENT rather than ITEM which contains information about the shipment as a whole rather than the item. HL1 is the parent field of the item level HL segments in this example.

```

5 HL 1**S~
6 MEA PD*G*55*LB~
7 TD1 CTN25*9~
8 TD5 B*02*LAWS*M~
9 TD3 TL**654321~
10 REF BM*AR1710031~
11 REF PK*AR1710031~
12 N1 ST**92*ROCKNEL~
13 N1 SF**01*MEIRA~
  
```

HL1

The format of HL1 is a little different. A detailed view of this can be seen below.

			Hierachical Level: Segment identifier indicates the start of a Hierachical Level Segment
			HL ID Number: Identifies the number of the Hierachical Level segment
			Parent Loop ID: Identifies the parent container to which this HL provides detail to (note: In this case it is blank because there is no higher level)
5	HL	1**S~	Level Type : Identifies the type of details listed in this HL segment In this case the HL type is SHIPMENT meaning the HL will give info about the shipment
			Measurement: This segment identifies mesurement related information
			Measurement Reference ID Code: PD identifies Physical Dimensions
			Measurement Qualifier: Identifies the type of measurement. "G" is Gross Weight.
			Measurement Value: The Measured Value
			Unit or Basis for Measurement Code: LB is Pounds
6	MEA	PD*G*55*LB~	
			TD1: Segment Lists Carrier Details for Quantity and Weight
			Packaging Code: CTN25 is Corrugated Carton
			Lading Quantity: Number of pallets in shipment *note default to 9 because pallet count is not required for upload*
7	TD1	CTN25*9~	
			TD5: Segment Lists Carrier Details for Transit Information
			Routing Sequenqe Code: "B" is Origin/Deliver Carrier
			Identification Code Qualifer: 02 Standard Carrier Alpha Code
			Carrier Code: LAWS is a fake carrier code created as a requirement
8	TD5	B*02*LAWS*M~	Transportation Method: M is MOTOR (COMMON CARRIER) *note this is fixed*
			TD3: Segment List Carrier Details for Equipment
			Equipment Desc. Code: "TL" = Trailer *note: this is fixed even if another method is used
			Equipment Number: This contains the Trailer number or air bill number *it is fixed as that info is not contained in the .csv
9	TD3	TL**654321~	
			Reference (SHIPMENT LEVEL): Segement identifies a shipment level refrence
			Reference No. Qualifier: "BM" for bill of lading
			Refrence Number: This is set to the AR/BR number.
10	REF	BM*AR1710031~	
			Reference (SHIPMENT LEVEL): Segement identifies a shipment level refrence
			Reference No. Qualifer: "PK" for packing slip
			Reference Number: This is set to the AR/BR number.
11	REF	PK*AR1710031~	
			Name 1: Identifies the name 1 Segment
			Entity Identifier Code: "ST" Ship to
			Free form name: not given
			Identification Code Qualifer: "92" Assigned by Buyer
			Identification Code: ROCKNEL
12	N1	ST**92*ROCKNEL~	
			Name 1: Identifies the name 1 Segment
			Entity Identifier Code: "SF" Ship From
			Free form name: not given
			Identification Code Qualifer: "01" for DUNS
			Identification Code: MEIRA
13	N1	SF**01*MEIRA~	

For a quick summary of what was detailed so far:

EDI Transaction

ISA 00* *00* *ZZ*MEIRA *ZZ*ROCKNEL *171009*0624*U*00401*000000119*0*T*>~
GS SH*MEIRA*ROCKNEL*20171009*062435*119*X*004010~
1 ST 856*0001~
2 BSN 00*AR1710031*20171009*0624~
3 DTM 011*20171009*0624~
4 DTM 017*20171009*0624~
5 HL 1**S~
6 MEA PD*G*55*LB~
7 TD1 CTN25*9~
8 TD5 B*02*LAWS*M~
9 TD3 TL**654321~
10 REF BM*AR1710031~
11 REF PK*AR1710031~
12 N1 ST**92*ROCKNEL~
13 N1 SF**01*MEIRA~
14 HL 2*1*I~
15 LIN *BP*AKT911B403-XX~
16 SN1 *3000*EA*66300~
17 PRF PASP170822~
18 CLD 5*600*CTN25~
19 REF LS*10041233~
20 REF LS*10041234~
21 REF LS*10041235~
22 REF LS*10041236~
23 REF LS*10041237~
24 HL 3*1*I~
25 LIN *BP*12-185C-1-4-XX~
26 SN1 *2500*EA*66300~
27 PRF PASP170822~
28 CLD 5*500*CTN25~
29 REF LS*10041238~
30 REF LS*10041239~
31 REF LS*10041240~
32 REF LS*10041241~
33 REF LS*10041242~
34 CTT 3*5500~
35 SE 35*0001~
GE 1*119~
IEA 1*000000119~

HL1

Contains: SHIP TO
SHIP FROM
BILL OF LADING
PACKING SLIP
MEASUREMENTS

HL2

Contains: PART
Total Quantity PER HL
Purchase Order
Container Count
Quantity PER container
Box Serial Numbers

HL3

Contains: PART
Total Quantity PER HL
Purchase Order
Container Count
Quantity PER container
Box Serial Numbers

The last two pieces of the puzzle are the header and the footer:

EDI Transaction	
ISA	00* *00* *ZZ*MEIRA *ZZ*ROCKNEL *171009*0624*U*00401*000000119*0*T*>~
GS	SH*MEIRA*ROCKNEL*20171009*062435*119*X*004010~
1 ST	856*0001~
2 BSN	00*AR1710031*20171009*0624~
3 DTM	011*20171009*0624~
4 DTM	017*20171009*0624~
<h1>HEADER</h1>	
<h1>FOOTER</h1>	
34 CTT	3*5500~
35 SE	35*0001~
GE	1*119~
IEA	1*000000119~

The header and footer basically delineate the start end and type of order. See on next page for a detailed breakdown:

Also see: (<http://ecomgx17.ecomtoday.com/edi/856.htm>)

HEADER:

ISA: Interchange Control Header Segment Identifier
Authorization Information Qualifier: "00" is "no auth information present"
Security Information Qualifier: "00" is blank
Interchange Qualifier: "ZZ" is Mutually Defined
Interchange Sender ID: "MEIRA" is the sender
Interchange Qualifier: "ZZ" is Mutually Defined
Interchange Receiver ID: Rocknel is the Receiver
System Generated Date Time: YYMMDD*HHMM
Interchange Standards Identifier: "U" is U.S. EDI X12
Interchange Version ID: "00401" is Version 4010
Interchange Control Number: EDI Sequence number (unique increment)
Acknowledgment Requested: "0" is none
Test Indicator: T=TEST P=PRODUCTION
Segment Terminator: "~"~

ISA 00* 00* *ZZ*MEIRA *ZZ*ROCKNEL *171009*0624*U*00401*000000119*0*T*~

GS: Functional Group Header Segment Identifier
Functional ID: "SH" IS Ship Notice / Manifest (856)
Application Sender's Code: MEIRA
Application Receiver's Code: ROCKNEL
Data Interchange Date
Data Interchange Control Number: 119
Responsible Agency Code: X=X12
Version: 004010

GS SH*MEIRA*ROCKNEL*20171009*062435*119*X*004010~

ST: Transaction Set Identifier
Transaction Set Identifier Code: 856 advanced shipment notice
Transaction Set Control Number: "0001" Matches Trading Partner Setting

1 ST 856*0001~

BSN: Beginning Segment for Ship Notice Identifier
Transaction Set Purpose Code: "00" Original
Shipment Identification: Unique Number Identifying a specific Shipment
Date: CCYYMMDD
Time: HHMM

2 BSN 00*AR1710031*20171009*0624~

DTM: Date/Time Reference IDENTIFER
Date/Time Qualifier: 11 = Shipped
Date: CCYYMMDD
Time: HHMM

3 DTM 011*20171009*0624~

DTM: Date/Time Reference IDENTIFER
Date/Time Qualifier: 017=Estimated Delivery
Date: CCYYMMDD
Time: HHMM

4 DTM 017*20171009*0624~

FOOTER:

CCT: TRANSACTION TOTAL Identifier
Number of Line items: Count of HL segments
Total: Sum of Parts

34 CTT 3*5500~

SE: Transaction Set Trailer identifier
Number of Included Segments: Checksum linecount
Transaction Set Control Number: MUST MATCH ST COUNTER

35 SE 35*0001~

GE: Functional Group End Identifier
Number of Transaction Sets Included: 1
Group Control Number: Match Data interchange Control number in GS segment

GE 1*119~

IEA: Interchange Control Trailer
Number of Included Functional Groups: 1
Interchange Control Number: Matches ISA Counter as checksum

IEA 1*000000119~

