



TRAIN CONSIST – ADM – RAIL OPERTORS – RAIL BAPLIE SPECS V3.2

Rail Baplie D97A – Version 3.2

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1. NOTES

This specification is intended only for RAIL OPERATORS sending a Train Consist EDI message to 1-STOP

This Guideline is a '**minimised version**' of the Implementation Guide for the Industry Standard Rail BAPLIE.

This guideline has been tailored to essentially provide details of the rolling stock units that make up the train. The intrinsic details of export cargo would have been reported in the PRA, which normally precedes the Rail BAPLIE message. Therefore the details in the BAPLIE message will be kept to the required minimum to avoid unnecessary repetition.

The data in the PRA will take precedence over the data in the Train Consist EDI message. For example, if the PRA container was sent to Terminal 1 but the Train Consist says it is going to Terminal 2 the Train Consist data will be changed to Terminal 1 to match the PRA before sending the message to Terminal 1.

The Train rail destination and the containers rail destination do not necessarily have to match. Although the Train has one primary destination nominated at the point of origin it may distribute some containers to other destinations before or after this point.

The sequence of wagon slot should trend in the same direction as the wagon sequence.

This guideline caters for reporting the pin configuration on empty wagons and/or empty wagon slots.

Empty wagons and the pin configuration of every empty wagon slot must be reported, unless the wagon has an equipment status of '13' indicating it is in need of repair or "Out of Service".

2. DOCUMENT VERSION CONTROL

Document Title:	Rail Operator – Rail BAPLIE Specifications
Owner	1-Stop Connection Pty Ltd

Version	Date	WR/Case Number	Change detail	Changed by
1.0	08/01/07	WR24	Initial draft	Marin Loo
2.0	22/02/08	WR24209	Updated specs to include wagon class data validation/checking	Marin Loo
2.1	28/08/08		Updated to clarify that Group 7,9,10 is not required for wagons in repair or empty wagons	Marin Loo
2.2	10/09/08		Updated to clarify that wagon sequence in the LOC+147 (Grp 7) is the rolling stock sequence	Marin Loo
2.3	2/10/08		Updated the NAD+MR segment. The destination of the wagon is at the wagon level which is determined by the NAD+CW segment (Group6).	Marin Loo
2.4	11/11/08		Updated to clarify that LOC+147 is not required for out of service wagons and locomotives.	Marin Loo
2.5	30/03/10		Updated the message specs with the UNZ and optional UNA segment	Henry Aguilar
2.6	16/03/12		Updated sample consists to correct RFF segments (from 'REF')	Ian Clemeno
2.6a	22/11/16		Updated the 1-Stop Logo on the title page	Tony Latella
2.7	22/01/17		Updated general format of the document	Tony Latella
2.8	19 Feb 2018		Added the following to the NOTES section: "The data in the PRA will take precedence over the data in the Train Consist EDI message. For example, if the PRA container was sent to Terminal 1 but the Train Consist says it is going to Terminal 2 the Train Consist data will be changed to Terminal 1 to match the PRA before sending the message to Terminal 1."	Tony Latella

2.9	31 Jan 2019		<p>Added HAN segment to indicate Door facing direction.</p> <p>Updated MEA+AAE+G segment description the weight is expected to be verified gross weight.</p> <p>Updated Sample messages to reflect the HAN segment change</p>	Julie Zhang
3.0	24 Apr 2020		<p>Changed the value of component element 1131 in HAN segment from HANDLING to HAN.</p> <p>HAN+DFF:HAN:306'</p>	Julie Zhang
3.1	22 May 2020		<p>Update sample message to change FTX+AAA to FTX+ACB</p>	Julie Zhang
3.2	2 July 2020		<p>Updated LOC+147 code identifier 20 for PIN configuration</p>	Julie Zhang

3. MESSAGE RULES

3.1 Business Rules

- All containers/slots on a wagon must be reported to even if the containers/slots do not belong to the consignor.
- Empty slots must be reported.
- All mandatory data items in each record must be sent unless otherwise indicated.

3.2 Transport Rules

- Data files are transferred to 1-Stop via email attachments to the following email addresses:
- Production: **trainconsist@edi.1-stop.biz**
- Test: **stop20@test.1-stop.biz**

3.3 Internet Email (SMTP)

- The email Subject line must contain this string : **TRAIN BAPLIE**
- The file must be the only attachment in the email.
- The file name should have the following format: **CONSIST_YYYYMMDDHHMM.edi**
- The email should be plain text only.
- There should be nothing in the email body.

4. DATA STRUCTURE

4.1 Summary of the segments

Group	Segment	Content
1 Header	UNB	Sender and Recipients mail Ids, only one Interchange (UNB to UNZ)
	UNH	Message type
	BGM	Message document type
	DTM	Date/time of preparation
2 Message sender and receiver	NAD	Message Sender and Recipient
4 Train details	TDT	Train ID, service operator and owner.
	LOC	Place of departure and primary destination of train.
	DTM	Date and times, actual and estimated of train movement.
	QTY	Number of locomotives and wagons
6 Rolling stock details		Repeated for each item of rolling stock.
	EQD	Identity of locomotives and wagons

	NAD RFF	Associate a destination terminal to each wagon Sequence number of rolling stock
7,9,10 Container details		Repeated for each container.
7	LOC	Location of container on train
7	FTX	Commodity
7	MEA	Gross weight
7	RFF	CAN number, if export Shipping Line Booking number, if export
9	TDT LOC	Transport details Export routing. Discharge Port and Final Discharge Port Import rail destination and optionally additional delivery instructions.
10	EQD HAN	Container number, container iso and load status. Handling instructions
Trailer	UNT UNZ	only one Interchange (UNB to UNZ)

5. SEGMENT DETAIL

Delimiters + : ' have been shown at the point where they should appear in the segment.

The data elements expressed in navy bold type indicate those dynamic values that will usually vary with each message. This is usually seen from the UNA segment (UNA:+.? '). The UNA segment is optional within an EDIFACT interchange. The specifications in the UNA segment define the characters that will be used as separators and indicators for the interchange.

NOTE:

Data elements

UNB+UNOA:1+ACME:ZZ+1STOP:ZZ+060101:1000+12161+++++1'

UNB element	Description	Logic	
S001	0001	Character set	'UNOA'
	0002		'1'
S002	0004	Message Sender	Rail Operator Sender ID (Must be 1-Stop registered sender code)
	0007	Message sender qualifier	'ZZ'
S003	0010	Message recipient	'1STOP'
	0007	Message recipient qualifier	'ZZ'
S004	0017	System Date	System Date in YYMMDD format
	0019	System Time	System Time in HHMM format
0020		Sender Gateway reference	System generated.

0035		+++++1'
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UNH+12161+BAPLIE:D:97A:UN:ANZ26' ,Mandatory

UNH element	Description	Logic
0062	Msg Reference no	System generated
S009	0065 Msg Type Identifier	'BAPLIE'
	0052 Msg Type Version no	'D'
	0054 Msg Type Release no	'97A'
	0051 Controlling Agency	'UN'
	0057 Association Assigned code	'ANZ26' – Must be ANZ26 for Rail operators sending EDI

BGM+T99+200608145SM2+9' ,Mandatory

BGM element	Description	Logic
C002	1001 Document/message code	'T99' – Train Consist Message
C106	1004 Document/message no	System generated
1225	Message Function code	'9' - Original and Replacements '1' – Cancellation

DTM+137:200601010930:203' ,Mandatory

Gp1

DTM element	Description	Logic
C507	2005 Date/time/period qualifier	'137' – Document/message date time
	2380 Date/time	Date/time of Message Created
	2379 Date/time/period format qualifier	'203' – Format CCYYMMDDHHMM

NAD+MS+ACME' ,Mandatory

NAD+MR+1STOP' ,Mandatory

Gp2

NAD element	Description	Logic
3035	Party Qualifier	'MS' - Message Sender
C082	3039 Company Code	Train Operator code (must be a valid registered 1-Stop trading code)

3035	Party Qualifier	'MR' – Message Recipient
C082	3039 Company Code	1STOP

TDT+1+20060815+2++PATRK+++5SM2+NP' ,Mandatory

Grp 4

TDT element	Description	Logic
8051	Transport stage qualifier	'1' –Inland Transport

8028		Conveyance Reference Number	Train Service Number
C220	8067	Mode of Transport	'2' – Rail
C228		Transport means	
C040	3127	Carrier	Train Operator code
8101			
C401			
C222	8213	Transport Identification	Train Number
8281		Transport Ownership	Train Owner Code

LOC+5+DUBBO' ,Mandatory
LOC+8+AUSYD' ,Mandatory

Gp4

LOC element Description Logic

3227		Place/location qualifier	'5' – Place of departure
C517	3225	Location Id	Departure ACOS code – Place of departure. (1-Stop registered Departure ACOS)

3227		Place/location qualifier	'8' – Place of Destination
C517	3225	Location Id	UNLOCODE – Place of destination eg: AUSYD, AUMEL

DTM+186:200601010930:203' ,Mandatory if Scheduled Departure date/time is not provided
DTM+189:200601010930:203' ,Mandatory if Actual Departure date/time is not provided
DTM+132:200601020600:203 ,Mandatory

Gp4

DTM element Description Logic

C507	2005	Date/time/period qualifier	'186' – Actual Departure date/time
	2380	Date/time	Actual Departure Date/Time
	2379	Date/time/period format qualifier	'203' – Format CCYMMDDHHMM

C507	2005	Date/time/period qualifier	'189' – Scheduled Departure date/time
	2380	Date/time	Scheduled Departure Date/Time
	2379	Date/time/period format qualifier	'203' – Format CCYMMDDHHMM

C507	2005	Date/time/period qualifier	'132' – Scheduled Arrival date/time
	2380	Date/time	Scheduled Arrival Date/Time
	2379	Date/time/period format qualifier	'203' – Format CCYMMDDHHMM

QTY+T80:1' ,Mandatory if there are locomotives

QTY+T81:7' ,Mandatory

Gp4

QTY element Description Logic

C186	6063	Quantity qualifier	T80 – Number of Locomotives
4453	6060	Quantity	No. of Locos

C186	6063	Quantity qualifier	T81 – Number of Wagons
4453	6060	Quantity	No. of Wagons

* Group 6 EQD & RFF segments repeated for each unit of rolling stock

EQD+T83+8158+81' ,Mandatory if there are locomotives

EQD+RR+60448+NQZA++10+5' ,Mandatory

Gp 6

EQD element Description Logic

8053		Equipment qualifier	'T83' – Railway Locomotive
C237	8260	Locomotive number	Loco Number 'LOCO' If loco number is not known
C224	8155	Locomotive class	Loco class

8053		Equipment qualifier	'RR' – Rail Car (Wagon)
C237	8260	Wagon Number	Wagon Number (eg. 60448)
C224	8155	Wagon class	Wagon Class (eg. NQZA) As part of WR24209 - The value of the wagon class will be checked for validity. The number of slots for the wagon class will also be checked to ensure that the right number of slots have been reported (refer to Grp7 – LOC segment).
8027			
8249		Equipment Status Code (Wagon Condition)	'13' – (Requires Repair) If wagon is out of service else '10' – (Usable)
8169		Full/Empty indicator	'4' – If wagon is empty (i.e there is no containers on it or it is out of service) '5' – If wagon is loaded

NAD+CW:ASLPB' ,Mandatory

Gp 6

RFF element Description Logic

	3035	Party qualifier	'CW' – Equipment owner. This will help identify the destination terminal and associate each wagon with a terminal
C082	3039	Party Id. Identification	Marine Terminal Id eg: ASLPB, CTLPB, ASES1 etc This code is used by both P&O and Patrick. It is critical to get this right otherwise the data will go to the wrong stevedore.

RFF+EQ:001' ,Mandatory

Gp 6

RFF element Description Logic

C506	1153	Reference Qualifier	'EQ' – Rolling stock sequence of locomotives and wagons from the front of the train (starting from the first wagon/loco details line in the screen).
	11054	Reference Number	Rolling Stock Sequence. * Note: Locomotives and Wagons will be part of the same sequence.

* Group 7, 9 and 10 repeated for each container and empty slot in **wagons that are not out of service**. These groups do not apply to locomotives or wagons which are out of service

LOC+147+0020201:20' , Mandatory for Wagons that are not out of service.

Not required for Locomotives

Gp 7

LOC element Description Logic

3227		Location qualifier	'147' – Container Wagon Stowage Slot
C517	3225	Place/location identifier	Stowage Location value which comprises of: Rolling stock sequence, Wagon slot, Vertical Stowage Position Example: 0030201 Where 003 is the rolling stock sequence 02 is the wagon slot 01 – Vertical Stowage Position (This is always 01 as double stacked cargo will not be catered for) The number of wagon slots for the wagon class will be checked as part of the wagon class validation to ensure that the number of slots have been correctly reported for the wagon class.
	1131	Code list qualifier	Pin configuration settings 20

FTX+ACB++GENL' , *Optional*

Gp7

FTX element	Description	Logic
4451	Text subject qualifier	'ACB' – Additional Information (Commodity code)
4453		
C107	4441 Free Text Identification	Commodity code

MEA+AAE+G+KGM:2100' , *Mandatory*

Gp7

MEA element	Description	Logic
6311	Measurement qualifier	'AAE' – Measurement
C502	6313 Measurement dimension code	'G' – Gross Weight, verified gross weight for full container according to SOLAS Container/Cargo Item weight
C174	6411 Measure unit qualifier	'KGM' – Kilograms
	6314 Measurement value	Container/cargo weight Blank if not known

RFF+AAE:AAAH36E4F' , *Mandatory*
RFF+CN:SHPB100'

Gp7

RFF element	Description	Logic
C506	1153 Reference Type qualifier	'AAE' – Customs Export Reference Number
	1154 Reference Number	Customs Authority Number 'UNKNOWN' – if not known

C506	1153 Reference Type qualifier	'CN' – Shipping line Booking number
	1154 Reference Number	Shipping Line Booking reference 'UNKNOWN' - If not known

TDT+30+S263+1++ +++7134290' , *Optional*

Grp 9

TDT element	Description	Logic
8051	Transport stage qualifier	'30' – On-carriage
8028	Voyage Number	Voyage Number 'UNKNOWN – If there is no matching PRA
C220	8067 Mode of Transport	'1' – Maritime (ocean)
C228		
C040		
8101		

C401			
C222	8213	Lloyds Vessel Id	Lloyds Number 'UNKNOWN' – If there is no matching PRA

LOC+5+ACME' ,Optional
LOC+8+ASLPB'

Gp9

LOC element	Description	Logic	
3227		Place/location qualifier	'5' – Place of Departure
C517	3225	Location Id	Place of Departure (ACOS Rail Siding or Inland Depot of 1-Stop Sender Code)

3227		Place/location qualifier	'8' – Place of Destination
C517	3225	Location Id	Marine Terminal Id

EQD+CN+MOLU6547823+22G0+2+5' ,Mandatory for loaded wagons

Gp10

EQD element	Description	Logic	
8053		Equipment qualifier	'CN' – Container details
C237	8260	Container Number	Container Number
C224	8155	Container size	Container ISO Size
8077			
8249		Equipment Status Code	'2' – If EXPORT '9' - If STORAGE Blank if not known
8169		Full/Empty indicator	'5' – If container is FULL '4' – If container is EMPTY '5' – If not known (will be treated as a full)

HAN+DFP:HAN:306' ,Mandatory for some terminals such as ASLPB

Gp10

HAN element	Description	Logic	
C524		Handling Instructions	
	4079	Handling instruction description code	'DFP' – Door facing forward 'DFA' – Door facing aft
	1131	Code list identification code	'HAN' - handling instructions
	3055	Code list responsible agency code	'306' - SMDG (Ship-planning Message Design Group)

UNT+24+12161' ,Mandatory

UNT element Description Logic

0074		Number of segments in the message	
0062		Message Reference Number	Must match the msg ref number in the UNH segment (element 0062)

UNZ+1+12161' ,Mandatory

UNT elementDescription Logic

0036		Interchange control count	
0020		Interchange control reference / Sender Gateway reference	Must match the Sender Gateway reference in the UNB segment (element 0020)

6. SAMPLE MESSAGE

A train consisting of 1 locomotive and 5 laden wagons,1 damaged empty wagon and 1 empty wagon from ACME siding to Patrick Port Botany Terminal; carrying export containers. Exports include 20' General, 40' Hazardous, 40' Reefer and 40' General consignments.

The pin setting of empty wagon slots are depicted in the LOC+147 segments.

Note: Mandatory Segments and elements are depicted in bold.

```

UNB+UNOA:1+ACME:ZZ+1STOP:ZZ+060101:1000+12161+++++1'
UNH+12161+BAPLIE:D:97A:UN:ANZ26'
BGM+T99+200608145SM2+9'
DTM+137:200601011000:203'
NAD+MS+ACME'
NAD+MR+ASLPB'
TDT+1+20060815+2++PAT+++5SM2+ACM'
LOC+5+DUBBO'
LOC+8+AUSYD'
DTM+186:200601010930:203'
DTM+132:200601020600:203
QTY+T80:1'
QTY+T81:7'
EQD+T83+8158+81'
NAD+CW+ASLPB'
RFF+EQ:001'
EQD+RR+60448+NQZA++10+5'
NAD+CW+ASLPB'
RFF+EQ:002'
EQD+RR+60449+NQZA++10+5'
NAD+CW+ASLPB'
RFF+EQ:003'
EQD+RR+60450+NQZA++10+5'
NAD+CW+ASLPB'
RFF+EQ:004'
EQD+RR+60451+NQZA++10+5'

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NAD+CW+ASLPB'
RFF+EQ:005'
EQD+RR+60452+NQZA++10+5'
NAD+CW+ASLPB'
RFF+EQ:006'
EQD+RR+60452+NQZA++13+4' * Out of service Wagon
NAD+CW+ASLPB'
RFF+EQ:007'
EQD+RR+60666+NQZA++10+4' * Empty wagon
NAD+CW+ASLPB'
RFF+EQ:008'
LOC+147+0020101:20'
FTX+ACB++GENL'
MEA+AAE+G+KGM:21500'
RFF+AAE:AAA36E4F'
RFF+CN:MOL1234567'
TDT+30+100N+1+++++9756347'
LOC+5+ACME'
LOC+8+ASLPB'
EQD+CN+MOLU6547823+22G0++2+5'
HAN+DFF:HAN:306'
LOC+147+0020101:20' *Empty slot with pin configuration reported
MEA+AAE+G+KGM'
RFF+AAE:UNKNOWN'
TDT+30+UNKNOWN+1+++++UNKNOWN'
LOC+5+ACME'
LOC+8+AUSYD'
LOC+147+0020301:20'
FTX+ACB++GENL'
MEA+AAE+G+KGM:21500'
RFF+AAE:AAA36E4F'
RFF+CN:MOL1234567'
TDT+30+100N+1+++++9756347'
LOC+5+ACME'
LOC+8+ASLPB'
EQD+CN+MOLU6548547+22G0++2+5'
HAN+DFF:HAN:306'
LOC+147+0030101:20'
FTX+ACB++HAZ'
MEA+AAE+G+KGM:25500'
RFF+AAE:AAAD67E5F'
RFF+CN:254178'
TDT+30+100N+1+++++9756347'
LOC+5+ACME'
LOC+8+ASLPB'
EQD+CN+TOLU4433823+4310++2+5'
HAN+DFF:HAN:306'
MEA+AAE+AAL+KGM:22200
LOC+147+0030301:20' *Empty slot with pin configuration reported
MEA+AAE+G+KGM'
RFF+AAE:UNKNOWN'
TDT+30+UNKNOWN+1+++++UNKNOWN'
LOC+5+ACME'

LOC+8+AUSYD'
LOC+147+0040101:20'
 FTX+ACB++HFMT'
MEA+AAE+G+KGM:28500'
RFF+AAE:AAAH38E6F'
RFF+CN:ANL554477'
 TDT+30+100N+1+++++9756347'
 LOC+5+ACME'
 LOC+8+ASLPB'
EQD+CN+ANNU428453+43R0++2+5'
HAN+DFF:HAN:306'
LOC+147+0050101:20'
 FTX+ACB++GENL'
MEA+AAE+G+KGM:23500'
RFF+AAE:AAAH78E4F'
RFF+CN:ANL456879'
 TDT+30+100N+1+++++9756347'
 LOC+5+ACME'
 LOC+8+ASLPB'
EQD+CN+INBU5478821+43G0++2+5'
HAN+DFA:HAN:306'
LOC+147+0050301:20' *Empty slot with pin configuration reported
MEA+AAE+G+KGM'
RFF+AAE:UNKNOWN'
 TDT+30+UNKNOWN+1+++++UNKNOWN'
 LOC+5+ACME'
 LOC+8+AUSYD'
LOC+147+0060101:20'
 FTX+ACB++MACH'
MEA+AAE+G+KGM:17500'
RFF+AAE:AAAH446E4F'
RFF+CN:XX34567'
 TDT+30+100N+1+++++9756347'
 LOC+5+ACME'
 LOC+8+ASLPB'
EQD+CN+TRIU6651096+2210++2+5'
HAN+DFF:HAN:306'
LOC+147+0060201:20' *Empty slot with pin configuration reported
MEA+AAE+G+KGM'
RFF+AAE:UNKNOWN'
 TDT+30+UNKNOWN+1+++++UNKNOWN'
 LOC+5+ACME'
 LOC+8+AUSYD'
LOC+147+0060301:20'
 FTX+ACB++MACH'
MEA+AAE+G+KGM::12500'
RFF+AAE:AAAH446E4F'
RFF+CN:XX3456
 TDT+30+100N+1+++++9756347'
 LOC+5+ACME'
 LOC+8+ASLPB'
EQD+CN+XTRU2563715+2210++2+5'
HAN+DFF:HAN:306'

LOC+147+0080101:20'
MEA+AAE+G+KGM'
RFF+AAE:UNKNOWN'
LOC+147+0080201:20'
MEA+AAE+G+KGM'
RFF+AAE:UNKNOWN'
LOC+147+0080301:20'
MEA+AAE+G+KGM'
RFF+AAE:UNKNOWN'
UNT+133+12161'
UNZ+1+12161'