Implementation Guide
Rail Advance Interchange Consist Message

EDI 418
Version 8050

Purpose of Rail Advance Interchange Consist message EDI 418

The EDI 418 Rail Advance Interchange Consist message can be used to transmit advance information on equipment being interchanged to a connection rail carrier, from a consignor or to a consignee.

EDI Version & Guidelines

The EDI 418 closely complies with the official published Guidelines of the Information Systems Agreement, Standards Work Group. We will accept versions up to 008050.

Customized Formats

It is entirely the responsibility of the Sender of the EDI 418 who requires coding or mapping structure other than expressly written in the Guidelines and here in the CN Implementation documents to have the necessary changes performed at their system or through a Value Added Network (VAN).

Connection to CN

CN has a secure MFT server https://mftedi.cn.ca/ or we can push to an FTP server if you require. CN also connects with all major VAN's (Value Added Networks) and interconnects can be made available.

CN Contact

The EDI Onboarding team email address is EDIMGR@cn.ca. You can also visit us at www.cn.ca.

Rail Advance Interchange Consist Mapping Guide (EDI 418)

This section contains the details of how the EDI 418 message is formatted.

Example EDI 418 message

ISA*04*SW418 *00*MFT *02*GENERIC *02*CNFTP *250120*1437*U*00805*001943558*0*P*:
GS*IC*GENERIC*CN*20250120*1437*1943558*X*008050
ST*418*435580001
BAX*072400*T*139*20250121*150000*ABCD CN*072400
W1*CUT
W2*ACFX*49441*3742214*RR*W*0*****1*C113**
W3*69975*20250120*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SK
W5*ABCD*SKATN*CN
W2*POTX*2482*3742214*RR*W*0*****2*C113**
W3*69976*20250120*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SK
W5*ABCD*SKATN*CN
W2*GACX*31849*3742214*RR*W*0*****3*C114**
W3*69977*20250120*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SK
W5*ABCD*SKATN*CN
W2*POTX*1211*3742214*RR*W*0*****4*C113**
W3*69978*20250120*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SK
W5*ABCD*SKATN*CN
W2*POTX*1699*3742214*RR*W*0*****5*C113**
W3*69979*20250120*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SK
W5*ABCD*SKATN*CN
W2*POTX*1703*3742214*RR*W*0*****6*C113**
W3*69980*20250120*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SK
W5*ABCD*SKATN*CN
W2*INTX*10045*3742214*RR*W*0*****7*C114**
W3*69981*20250120*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SK
W5*ABCD*SKATN*CN
W2*GACX*470114*3742214*RR*W*******8*C113**
W3*69982*20250120*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SK
W5*ABCD*SKATN*CN
SE*40*435580001
GE*1*1943558
IEA*1*001943558

ISA Segment: Interchange Control Header

ISA*04*SW418 *00*MFT *02*GENERIC *02*CNFTP *250120*1437*U*00805*001943558*0*P*:

Ref. Des.	Name	Data Element	Attributes	
ISA01	Authorization Information Qualifier	I01	ID	2/2
ISA02	Authorization Information (SW418 – fill out field with spaces)	I02	AN	10/10
ISA03	Security Information Qualifier	I03	ID	2/2
ISA04	Security Information	I04	AN	10/10
ISA05	Interchange ID Qualifier	I05	ID	2/2
ISA06	Interchange Sender ID (GENERIC - fill out field with spaces)	I06	AN	15/15
ISA07	Interchange ID Qualifier (If RR SCAC use 02)	I05	ID	2/2
ISA08	Interchange Receiver ID (CN- fill out field with spaces)	I07	AN	15/15
ISA09	Interchange Date (YYMMDD)	I08	DT	6/6
ISA10	Interchange Time (HHMM)	I09	TM	4/4
ISA11	Repetition Separator (Suggest “^”)	I65		1/1
ISA12	Interchange Control Version Number (Value 00803)	I11	ID	5/5
ISA13	Interchange Control Number (a control number assigned by sender)	I12	N0	9/9
ISA14	Acknowledgment Requested (0 = none requested) (1= requested)	I13	ID	1/1
ISA15	Usage Indicator (P = Production) (T = Test)	I14	ID	1/1
ISA16	Component Element Separator (Suggest “:”)	I15		1/1

GS Segment: Functional Group Header

GS*IC*GENERIC*CN*20250120*1437*1943558*X*008050

Ref. Des.	Name	Data Element	Attributes	
GS01	Functional Identifier Code (IC=Rail Advance Interchange Consist 418)	479	ID	2/2
GS02	Application Sender's Code	142	AN	2/15
GS03	Application Receiver's Code (CN=Canadian National)	124	AN	2/15
GS04	Date (YYYYMMDD)	373	DT	8/8
GS05	Time (HHMM)	337	TM	4/8
GS06	Group Control Number (Assigned number originated and maintained by the sender)	28	N0	1/9
GS07	Responsible Agency Code (X=Accredited Standards Committee X12)	455	ID	1/2
GS08	Version / Release / Industry Identify	480	AN	1/12

ST Segment: Transaction Set Header

To indicate the start of a transaction set and to assign a control number.

ST*418*435580001

Ref. Des.	Name	Data Element	Attributes	
ST01	Transaction Set Identifier Code (418=Rail Advance Interchange Consist)	143	ID	3/3
ST02	Transaction Set Control Number (Sequential control number generated by the sender)	329	AN	4/9

BAX Segment: Beginning Segment for Advance Consist and Automatic Equipment Ident.

BAX*072400*T*139*20250121*1500*ABCD CN*072400

Ref. Des.	Name	Data Element	Attributes	
BAX01	Standard Point Location Code (SPLC)	154	ID	6/9
BAX02	Type of Consist Code (T=train)	579	ID	1/1
BAX03	Date/Time Qualifier (139=estimated)	374	ID	3/3
BAX04	Date (CCYYMMDD)	373	DT	8/8
BAX05	Time (HHMM, 24-hour clock 0001-2359 or HHMMSS or HHMMSSD or HHMMSSDD H=hours 00-23 M=minutes 00-59 S=seconds 00-59 DD=decimal seconds in tenths and hundredths 00-99)	337	TM	4/8
BAX06	Interchange Train Identification	41	AN	1/10
BAX07	Standard Point Location Code (SPLC)	154	ID	6/9

W1 Segment: Block Identification

W1*CUT

Ref. Des.	Name	Data Element	Attributes	
W101	Block Identifier	42	AN	1/12

W2 Segment: Equipment Identification

W2*ACFX*49441*3742214*RR*W*0******1*C113**

Ref. Des.	Name	Data Element	Attributes	
W201	Equipment Initial	206	AN	2/4
W202	Equipment Number	207	AN	1/15
W203	Commodity Code	22	AN	1/30
W204	Equipment Description Code (RR=rail car)	40	ID	2/2
W205	Equipment Status Code (W=revenue empty)	578	ID	1/2
W206	Net Tons (Net weight in tons)	577	N0	1/3
W214	Position (Relative position of rail car or container)	219	AN	1/3
W215	Car Type Code (Code maintained by AAR to identify a type of rail car or intermodal equipment type and its general characteristics)	301	ID	1/4

W3 Segment: Consignee Information

W3*69975*20250120*CN*SASKATOON*SK

Ref. Des.	Name	Data Element	Attributes	
W301	Waybill Number	186	N0	1/6
W302	Date (CCYYMMDD)	373	DT	8/8
W303	Abbreviated customer name (Customer name in abbreviated form)	576	AN	2/12
W304	City Name	19	AN	2/19
W305	State or Province Code	156	ID	2/2

W4 Segment: Consignor Information

W4*FRONTLINE RA*ABCD*75454*HAGUE*SK

Ref. Des.	Name	Data Element	Attributes	
W401	Abbreviated Customer Name (Customer name in abbreviate form)	576	AN	2/12
W402	Standard Carrier Alpha Code (SCAC code)	140	ID	2/4
W403	Freight Station Accounting Code (FSAC code)	573	ID	1/5
W404	City Name	19	AN	2/19
W405	State or Province Code	156	ID	2/2

W5 Segment: Carrier and Route Information

W5*ABCD*SKATN*CN

Ref. Des.	Name	Data Element	Attributes	
W501	Standard Carrier Alpha Code (SCAC code)	140	ID	2/4
W502	City Name (Rule 160 junction abbreviation)	19	AN	2/30
W503	Standard Carrier Alpha Code (SCAC code)	140	ID	2/4

SE Segment: Transaction Set Trailer

SE*40*435580001

Ref. Des.	Name	Data Element	Attributes	
SE01	Number of Included Segments (Includes ST and SE segments)	96	N0	1/10
SE02	Transaction Set Control Number (Repeated from ST segment ST02)	329	AN	4/9

GE Segment: Functional Group Trailer

GE*1*1943558

Ref. Des.	Name	Data Element	Attributes	
GE01	Number of Transaction Sets Included	97	N0	1/6
GE02	Group Control Number (Repeated from GS Segment GS06)	28	N0	1/9

IEA Segment: Interchange Control Trailer

IEA*1*001943558

Ref. Des.	Name	Data Element	Attributes	
IEA01	Number of included Functional Groups	I16	N0	1/5
IEA02	Interchange Control Number (Same number as ISA13)	I12	N0	9/9