



# **Implementation Guide to Rail Advance Interchange Consist**

**EDI 418**

# **Overview**

## **Purpose of Advance Consist**

The EDI 418 Rail Advance Interchange Consist transaction 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 Rail Advance Interchange Consist, closely complies with the official published Guidelines of the Information Systems Agreement, Standards Work Group. We will accept versions up to 007030.

## **Customized Formats**

It is entirely the responsibility of the Sender of the 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 [edimft.cn.ca](http://edimft.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**

CN provides an email address for customers to provide other information and inquiries. The EDI Data Quality Coordinator Team email address is [EDIMGR@cn.ca](mailto:EDIMGR@cn.ca). You can also visit us at [www.cn.ca](http://www.cn.ca).

# Rail Advance Interchange Consist Mapping Guide (EDI 418)

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

## Sample EDI 418

```
ISA*04*SW418  *00*MFT    *02*RMXXABCD  *02*CNFTP
*180620*1437*U*00703*001943558*0*P*:
GS*IC*ABCD*CN*20180620*1437*1943558*X*007030
ST*418*435580001
BAX*072400*T*139*20180621*1500*ABCD CN*072400
W1*CUT
W2*ACFX*49441*3742214*RR*W*****C113
W3*69975*20180620*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SK
W5*ABCD*SKATN*CN
W2*POTX*2482*3742214*RR*W*****C113
W3*69976*20180620*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SK
W5*ABCD*SKATN*CN
W2*GACX*31849*3742214*RR*W*****C114
W3*69977*20180620*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SK
W5*ABCD*SKATN*CN
W2*POTX*1211*3742214*RR*W*****C113
W3*69978*20180620*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SK
W5*ABCD*SKATN*CN
W2*POTX*1699*3742214*RR*W*****C113
W3*69979*20180620*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SK
W5*ABCD*SKATN*CN
W2*POTX*1703*3742214*RR*W*****C113
W3*69980*20180620*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SK
W5*ABCD*SKATN*CN
W2*INTX*10045*3742214*RR*W*****C114
W3*69981*20180620*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SKW5*ABCD*SKATN*CN
W2*GACX*470114*3742214*RR*W*****C113
W3*69982*20180620*CN*SASKATOON*SK
W4*FRONTLINE RA*ABCD*75454*HAGUE*SK
W5*ABCD*SKATN*CN
SE*39*435580001
GE*1*1943558
IEA*1*001943558
```

## ISA Segment: Interchange Control Header

ISA\*04\*SW418 \*00\*MFT \*02\*RMXXABCD \*02\*CNFTP  
\*180620\*1437\*U\*00703\*001943558\*0\*P\*:

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
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 (RMXXABCD - 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 00703)	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\*ABCD\*CN\*20180620\*1437\*1943558\*X\*007030**

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
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**

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
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 Transportation Automatic Equipment ID**

**BAX\*072400\*T\*139\*20180621\*1500\*ABCD CN\*072400**

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
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 (YYYYMMDD)	373	DT	8/8
BAX05	Time (HHMM)	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**

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
W101	Block Identifier	42	AN	1/12

**W2 Segment: Equipment Identification**

**W2\*ACFX\*49441\*3742214\*RR\*W\*\*\*\*\*C113**

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
W201	Equipment Initial	206	AN	1/4
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
W215	Car Type Code	301	ID	1/4

**W3 Segment: Consignee Information**

**W3\*69975\*20180620\*CN\*SASKATOON\*SK**

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
W301	Waybill Number	186	N0	1/6
W302	Date	373	DT	8/8
W303	Commodity Code	22	AN	1/30
W304	Equipment Description Code (RR=rail car)	40	ID	2/2
W305	Equipment Status Code (W=revenue empty)	578	ID	1/2

**W4 Segment: Consignor Information**

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

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
W401	Abbreviated Customer Name	576	AN	2/12
W402	Standard Carrier Alpha Code	140	ID	2/4
W403	Freight Station Accounting Code	573	ID	1/5
W404	City Name	19	AN	2/30
W405	State or Province Code	156	ID	2/2

**W5 Segment: Carrier and Route Information**

**W5\*ABCD\*SKATN\*CN**

<u>Element Seg</u>	<u>Element Description</u>	<u>Data Element</u>	<u>Data Type</u>	<u>Characters Min/Max</u>
W501	Standard Carrier Alpha Code	140	ID	2/4
W502	City Name	19	AN	2/30
W503	Standard Carrier Alpha Code	140	ID	2/4
W504	City Name	19	AN	2/30

**SE Segment: Transaction Set Trailer**

**SE\*39\*435580001**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
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**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
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**

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
IEA01	Number of included Functional Groups	I16	N0	1/5
IEA02	Interchange Control Number (Same number as ISA13)	I12	N0	9/9