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Resources

TraceLink University

Warehouse shipping order (X12)

Warehouse shipping orders allow companies to exchange data with their remote warehouses or third-party warehouse Partners about requests for purchased product to be shipped to a buyer's location without giving these Partners access to their serialization system of record. Warehouse shipping orders can be used to request that products in a given purchase order be shipped to a buyer's location from a supplier's remote or third-party warehouses and confirm that the supplier's remote warehouses or third-party warehouses has shipped the requested product via a warehouse shipping advice.

Suppliers use warehouse shipping orders to communicate requests to their remote or third-party warehouse for purchased product to be shipped from the supplier's remote or third-party warehouse to a buyer's location.



Contact your TraceLink Services representative for more information about integrating with this message.

- **Message Type:** MPC_WAREHOUSE_SHIP_ORDER (Warehouse Shipping Order)
- **X12 Format:** 940
- **Transform Names:**
 - B2B_EDIX12_940_WHS_ShipOrder_IB_V4

◦ B2B_EDI_X12_940_WHS_ShipOrder_OB_V3

Guidelines

Input Element	Occurs	Length	Description	Example
ISA	1...1	-	Required. ISA interchange envelope.	-
ISA01	1...1	2/2	Required. Qualifier for authorization control number in ISA02. Valid values: • 00 - No authorization info present. • 03 - Additional data identification.	00
ISA02	1...1	10/10	Required. Information used for additional identification or authorization of the interchange sender or the data in the interchange/ 10 spaces a valid entry.	-
ISA03	1...1	2/2	Required. Qualifier for security information in ISA04. Valid values: • 00 - No security information present. • 01 - Password.	00
ISA04	1...1	10/10	Required. Identifies security information about the interchange sender or data.	-
ISA05	1...1	2/2	Required. Interchange sender partner ID qualifier.	07
ISA06	1...1	15/15	Required. EDI sender ID mapping to Interchange control group header.	7777776067344
ISA07	1...1	2/2	Required. Interchange receiver partner ID qualifier.	01
ISA08	1...1	15/15	Required. EDI receiver ID mapping to file control header.	888888404358877
ISA09	1...1	6/6	Required. Interchange date in 6 char YYMMDD format.	20231021
ISA10	1...1	4/4	Required. Interchange time in 4 char HHMM format.	1420
ISA11	1...1	1/1	Required. Repetition separator. Delimiter that separates repeated occurrences of a data element or composite data structure. Must be different than the data element separator, component separator, and segment terminator.	;-
ISA12	1...1	5/5	Required. Interchange control version number. Valid value is 00501.	00501
ISA13	1...1	9/9	Required. Interchange Control Number for file control header	000000000619827
ISA14	1...1	1/1	Required. Interchange level acknowledgement requested. Valid values: • 0 - No acknowledgment requested. • 1 - Interchange level acknowledgment requested.	0
ISA15	1...1	1/2	Required. Indicates whether the interchange is for production, test, or information purposes. Valid values: • I - Information. • P - Production data. • T - Test data.	P
ISA16	1...1	1/1	Required. Component element separator. Delimiter that separates data elements within a composite data structure. Must be different than the data element separator and segment terminator.	>
GS	1...*	-	GS group functional envelope. Child of ISA. Only one GS group expected per interchange.	-
GS01	1...1	2/2	Required. GS group function code. Valid value is 0W - Ship Order.	0W
GS02	1...1	2/15	Required. Application sender's code.	2222224043588
GS03	1...1	2/15	Required. Application receiver's code.	TRACELINK
GS04	1...1	8/8	Required. Current date stamp in 8 char X12 date format YYYYMMDD.	20301020
GS05	1...1	4/8	Required. Current time stamp in 6 char X12 time format HHMMSS.	142000
GS06	1...1	1/9	Required. Group Control ID Number.	619827
GS07	1...1	1/2	Required. Responsible Agency Code. Valid value is X.	X
GS08	1...1	1/12	Required. X12 message version code. Valid value is 00501.	005010
ST	1...*	-	ST transaction set envelope. Child of GS group. Only one ST transaction expected.	-
ST01	1...1	3/3	Required. Transaction set identifier code.	940
ST02	1...1	4/9	Required. Transaction set ID number. Counter for each ST segment beginning with 1.	1
W05	1...1	-	Required. Warehouse Shipment Order Identification. Child of ST transaction set.	-

Input Element	Occurs	Length	Description	Example
W0501	1...1	1/1	Required. Order Status Code. Valid values: • F - Cancel • N - Original(Create) • R - Change	N
W0502	0...1	1/22	Order number. Identifying number for warehouse shipping order.	12345
W0503	0...1	1/22	Purchase Order Number.	20230916
W0504	0...1	1/30	Shipment Identification Number assigned by the Shipper.	-
W0505	0...1	1/12	Master Reference (Link) Number.	-
N1	0...1	-	N1: Name segment loop for • Ship to party • Sold to party • Bill to party • Supplier party • Ship from party • Carrier party	
N101	1...1	2/3	Required. Entity identifier code for party identifier and address information for • Ship to party • Sold to party • Bill to party • Supplier party • Ship from party • Carrier party Valid value: • ST - Ship to party • BT - Bill to party • BY - Buyer • SU - Supplier party • SF - Ship from party • CA - Carrier	SU
N102	1...1	1/60	Required. Name	Supplier Inc
N103	1...1	1/2	Required. Identifier code qualifier. Valid values: • 01 - DUNS • 09 - DUNS+4 • 11 - Drug Enforcement Agency registration number • 21 - Health Industry Number • 91 - Company identifier • 92 - Company location identifier • UL - Global Location Number	1
N104	1...1	2/80	Required. Supplier party identifier, as qualified by N103.	9999992028677
N3	0...1	-	N3: Address. Child of Ship to N1 Name segment.	-
N301	1...1	1/55	Required. Street address 1.	123 Supplier Road
N302	0...1	1/55	Street address 2.	Suite 123
N4	0...1	-	N4: Geographic Location. Child of bill to N1 name segment.	-
N401	1...1	2/30	Required. City name.	SupplierCity
N402	1...1	2/2	Required. State or province code. Code (Standard state/province) as defined by appropriate government agency	MA
N403	1...1	3/15	Required. Postal code. Code defining international postal zone code excluding punctuation and blanks.	01899
N404	1...1	2/3	Required. Country code.	US
G62	0...1	-	Date or time.	-
G6201	1...1	2/30	Required. Date Qualifier. Valid values: • 02 - Requested delivery date • 04 - Purchase Order date • 10 - Dispatch date • 17 - Estimated delivery date for shipment • 37 - Ship not before than date • 38 - Ship not later than date • 54 - Delivery no later than date • 85 - Date of issue (warehouse) • CL - Date loading completed • BC - Publication (document) date	04
G6202	1...1	2/2	Required. Date.	20231101
G6203	1...1	3/15	Required. Time in HH:MM:SS format.	-
G6204	1...1	2/3	Required. Time Code.	-
NTE	0...*	-	Note/Special Instruction.	-
NTE01	0...1	-	Note Reference Code.	-
NTE02	1...1	-	Required. Description.	Free Form Text

Input Element	Occurs	Length	Description	Example
LX	0...*	-	Transaction Set Line Number Loop.	-
LX01	1...1	1/6	Required. Transaction Set Line Number.	000001
W01	1...1	-	Required. Warehouse Item Detail Loop.	-
W0101	0...1	0/15	Quantity ordered. This is the total quantity in the ordered.	400

Input Element	Occurs	Length	Description	Example
W0102	0...1	2/2	Unit or basis for measurement code. .Valid values <ul style="list-style-type: none"> • 02 - Statute Mile • 4G - Microliter • AM - Ampoule • AV - Capsule • BD - Bundle • BG - Bag • B0 - Bottle • BX - Box • C3 - Centiliter • CA - Case • CC - Cubic Centimeter • CF - Cubic Feet • CG - Card, Blister • CI - Cubic Inches • CL - Cylinder • CM - Centimeter • CN - Can • CP - Crate • CQ - Cartridge • CR - Cubic Meters • CT - Carton • DA - Day • DI - Dispenser • DK - Kilometers • DL - Deciliter • DM - Decimeter • DR - Drum • DS - Display • DZ - Dozen • EA - Each • FO - Fluid Ounce • FT - Foot • GA - Gallon • GL - Gram/liter • GR - Gram • GS - Gross • H4 - Hectoliter • HF - Hundred Feet • HR - Hours • IN - Inch • K6 - Kiloliters • KG - Kilogram • KT - Kit • LB - Pounds • LF - Linear Foot • L0 - Lot (unit of procurement) • LT - Liter • LY - Linear Yard • MC - Microgram • ME - Milligram • ML - Milliliter • MM - Millimeter • M0 - Months • MR - Meter • OZ - Ounces • PC - Piece • PF - Pallet • PK - Package • PR - Pair • PT - Pint • QT - Quart • RL - Roll • SC - Square Centimeter • SF - Square Foot • SH - Sheet • SI - Square Inch • SM - Square Meter • ST - Set • SY - Square Yard • T3 - Thousand Pieces • TB - Tube • TH - Thousand • TY - Tray • U2 - Tablet • UM - Million • UN - Unit • V2 - Pouch • VI - Vial • WK - Week • YD - Yard • YR - Years 	CA

Input Element	Occurs	Length	Description	Example
W0103	0...1	12/12	U.P.C. Case Code. Not used.	-
W0104	0...1	2/2	Product or service ID qualifier. Valid values: <ul style="list-style-type: none"> • AV - Manufacturer/Supplier's catalog number • BP - Buyer's product number • FV - Canada product number • IN - Customer's(Buyer's) product item number • N1 - US National-Drug-Code-NDC442-with-hyphen-separators • N2 - US National-Drug-Code-NDC532-with-hyphen-separators • N3 - US National-Drug-Code-NDC541-with-hyphen-separators • N4 - US-National-Drug-Code-NDC542-with-hyphen-separators • MF - Manufacturer's product identifief • PI - Customer's (Purchaser's) material number • SK - Stock keeping unit • UK - GTIN14 identifier • UP or VC - Universal product number (UPC) • VN - Vendor (Supplier) material Number. 	VN
W0105	0...1	1/48	Product or service ID.	100021
W0106	0...1	2/2	Product or service ID qualifier. Valid values: <ul style="list-style-type: none"> • AV - Manufacturer/Supplier's catalog number • BP - Buyer's product number • FV - Canada product number • IN - Customer's(Buyer's) product item number • N1 - US National-Drug-Code-NDC442-with-hyphen-separators • N2 - US National-Drug-Code-NDC532-with-hyphen-separators • N3 - US National-Drug-Code-NDC541-with-hyphen-separators • N4 - US-National-Drug-Code-NDC542-with-hyphen-separators • MF - Manufacturer's product identifief • PI - Customer's (Purchaser's) material number • SK - Stock keeping unit • UK - GTIN14 identifier • UP or VC - Universal product number (UPC) • VN - Vendor (Supplier) material Number. 	UK
W0107	0...1	1/48	Product or service ID.	00000000228308706
W0108	0...1	1/12	Freight class code.	-
W0109	0...1	1/12	Rate class code.	-
W0110	0...1	1/10	Commodity code qualifier. Not used.	-
W0111	0...1	1/2	Commodity code. Not used.	-
W0112	0...1	1/1	Warehouse lot number. Not used.	-
W0113	0...1	1/1	Product or service condition code. Not used.	-
W0114	0...1	1/1	Pallet block and tiers. Not used.	-
W0115	0...1	1/1	Product or service ID qualifier. Valid values: <ul style="list-style-type: none"> • AV - Manufacturer/Supplier's catalog number • BP - Buyer's product number • FV - Canada product number • IN - Customer's(Buyer's) product item number • N1 - US National-Drug-Code-NDC442-with-hyphen-separators • N2 - US National-Drug-Code-NDC532-with-hyphen-separators • N3 - US National-Drug-Code-NDC541-with-hyphen-separators • N4 - US-National-Drug-Code-NDC542-with-hyphen-separators • MF - Manufacturer's product identifief • PI - Customer's (Purchaser's) material number • SK - Stock keeping unit • UK - GTIN14 identifier • UP or VC - Universal product number (UPC) • VN - Vendor (Supplier) material Number. 	N4
W0116	0...1	1/1	Product or service ID.	12345-1234-12
G69	0...5	-	Line item detail - description.	-
G6901	0...1	0/45	Free-form description.	SORITOL SR FCT 20MG 3X10 IL
N9	0...200	-	Extended reference information. Instance 1 for lot number.	-
N901	1...1	2/3	Required. Reference identification qualifier. Valid value is LT - Lot number.	LT

Input Element	Occurs	Length	Description	Example
N902	0...1	1/50	Reference identification.	'3912J141
N903	0...1	1/45	Free form description.	-
N904	0...1	8/8	Date in YYYYMMDD format.	-
N905	0...1	4/8	Time in HHMMSS format.	-
N9	0...200	-	Extended reference information. Instance 2 for Purchase Order Number.	-
N901	1...1	2/3	Required. Reference identification qualifier. Valid value is P0 - Purchase order number.	PO
N902	0...1	1/50	Reference identification.	C0243554NLC
N903	0...1	1/45	Free form description.	-
N904	0...1	8/8	Date in YYYYMMDD format.	-
N905	0...1	4/8	Time in HHMMSS format.	-
N9	0...1	-	Extended reference information Instance 3 for Tracking Number.	-
N901	1...1	2/3	Required. Reference identification qualifier. Valid value is 2I - Tracking number.	2I
N902	0...1	1/50	Reference identification.	K018293-00010
N903	0...1	1/45	Free form description.	-
N904	0...1	8/8	Date in YYYYMMDD format.	2030926
N905	0...1	4/8	Time in HHMMSS format.	092521
N9	0...200	-	Extended reference information. Instance 4 for line item number.	-
N901	1...1	2/3	Required. Reference identification qualifier. Valid value is LI - Line item number.	LI
N902	0...1	1/50	Reference identification.	'00010
NTE	0...*	-	Note or special instruction.	-
NTE01	0...1	3/3	Note reference code. Valid values: • B0L - Bill of Lading Note • INT - General Oder Instructions • LOI - Loading Instructions	INT
NTE02	0...1	1/80	Description	Description
W76	0...1	-	Total shipping order. Sum of quantity value in all line items.	-
W7601	1...1	1/15	Required. Quantity.	500
W7602	0...1	1/10	Weight.	-
W7603	0...1	2/2	Unit or basis for measurement code.	EA
CTT		-	CTT-Transaction totals.	-
CTT01	1...1	1/6	Required. Total number of line items in the transaction set.	15
SE	1...1	-	Required. ST ... SE transaction set trailer envelope. Child of GS group. Only one ST transaction expected.	-
SE01	1...1	1/10	Required. Total count of segments in ST ... SE transaction set including ST and SE segments.	-
SE02	1...1	4/9	Required. Transaction set control number	-
GE	1...*	-	GS ... GE functional group trailer envelope. Child of ISA interchange. Only one GS group expected.	-
GE01	1...1	1/6	Required. Number of transaction sets in functional group	5
GE01	1...1	1/9	Required. Functional group control number	619827
IEA	1...*	-	ISA ... IEA interchange control trailer envelope. Only one interchange expected per transmission.	-
IEA01	1...1	1/5	Required. Number of functional groups in interchange.	1
IEA02	1...1	9/9	Required. Interchange control number	0000000000619827

Example

```

ISA*00* ISA02*00* ISA04*20*Sender *ZZ*Receiver
*240129*1050*^*s10ss*11 *0*T*
GS*0W*222224043588*TRACELINK*20240129*1050*619827*X*005010
ST*940*0001
W05*N*12345*4500003288
N1*ST*ShipTo*92*COMPANYSITEID
N3*ShipTo Address 1*ShipTo Address 2
N4*ShipTo City*YY*ST4545*JP

```

N1*BY*Buyer*11*001000286
N3*BY Street1*Street2
N4*BY City*PR*111111*US
N1*BT*BillTo*1*001000286
N3*BT Stella Maris*Condado Ave 14
N4*BT San Juan*PR*00902*US
N1*SU*SUPPLIER/VENDOR (LF/SU)*21*001000286
N3*Supplier Street1* Street2
N4*Supplier City*SU*33333*US
N1*Sf*SHIPFROM (SF)*21*001000287
N3*ShipFrom Street1* Street2
N4*ShipFrom City*Sf*33333*US
N1*CA*Carr*UL*1399999
N3*Carr Address 1*Dist Address 2
N4*Carr Cit*ZZ*DistPst*US
G62*02*20240211
G62*04*20240212
G62*10*20240213
G62*17*20240214
G62*37*20240215
G62*38*20240216
G62*54*20240217
G62*85*20240218
G62*CL*20240219
G62*BC*20240220
NTE**TEXT1
NTE**TEXT2
NTE**TEXT3
LX*1
W01*1002*EA*UPC456789012*BP*BP1*SK*SKU1*****UK*GTIN14567
G69*Desc1
G69*Desc
N9*P0*P01344
N9*LT*LT-35466
N9*D2*SU849065
N9*LI*464565
NTE**ITTEXTA
NTE**ITTEXTB
LX*2
W01*899*EA**IN*IN234*MF*MF5676567*****VC*UP5656
G69*Desc1
G69*Desc2
N9*P0*P01344
N9*LT*LT-35466
N9*D2*SU849065
N9*LI*464565

NTE**ITTEXTA
NTE**ITTEXTB
W76*10*100*01
SE*27*s28s
GE*29*30
IEA*11*321111112



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