

LOWE'S EDI

852 Product Activity (POS) Data

Version: 004010

Author:	Lowe's Companies Inc
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852 Product Activity Data

Functional Group=PD

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Product Activity Data Transaction Set (852) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by a distributor, warehouse, or retailer to advise a trading partner of inventory, sales, and other product activity information. Product activity data enables a trading partner to plan and ship, or propose inventory replenishment quantities, for distribution centers, warehouses or retail outlets. The receiver of the transaction set will maintain some type of inventory/product movement records for its trading partners to enable replenishment calculations based on data provided by the distributor, warehouse or retailer.

Lowe's POS Data:

The 852 transaction is used to report actual unit sales, on-hand, on-order and order receipts (units and dollars can be reported for each metric upon request). Vendors receiving the 852 are expected to use this information to improve production planning. Visibility to item activity should assist in the identification of those items deserving increased service levels and fill rates and those deserving a reduction in inventory. To receive 852 data, vendors must document how the data will be used and how Lowe's will benefit. Request only the amount of data that will be used effectively to benefit both parties.

Lowe's determines item visibility by using a 18-month purchase order history to establish the vendor-item-location relationship. If a purchase order is on file for the last 18 months for a given vendor, item and location, the item will be included in the 852. Because Lowe's reports POS by SKU rather than UPC and at the item-location level and not by vendor, the potential for inaccurate reporting exists. In situations where an item is multi-sourced (supplied by more than one home office vendor number) in the same store, total item movement would be reported to both suppliers of the item; neither supplier has visibility to the item it supplied only the total. In addition, if vendors replenish the same item from multiple home Office vendors in the same store, POS data will be overstated if combined in your shop. New items reporting will begin when the purchase order for that item is received in either the RDC or the location.

Getting Started:

A vendor profile is created to determine the frequency of transmissions and aggregation of sales. In order to receive 852 data, Lowe's requires the transmission to be sent via AS2. Upon implementation of 852 transmissions, you can submit to Vendor.DART@Lowe's.com a request to receive up to 18 months of sales history. The request will be reviewed by the Vendor DART Team and, if approved, the history will be transmitted via EDI. It is your responsibility to inform Lowe's Vendor DART Analyst when you are ready to receive our electronic sales data. At that time, all files will be transmitted as production unless otherwise requested.

Item activity data can be reported for an item number at the store, distribution center or company level on a daily or weekly basis.

- Daily transmission containing previous day's sales information
- Weekly (Saturday) transmission for the previous seven days (reporting Saturday through Friday ONLY, Lowe's fiscal week).

Item activity data can be aggregated by location. (Note: All locations will be sent with leading zeros to comprise a 4 digit store number. Company level reporting will use location number 0998 for Lowe's US and 0912 for Lowe's Canada)

- Lowe's distribution center sales will be an aggregate of actual unit sales for all stores that the distribution center services, not shipments from the distribution centers.
- Total Company will be unit sales for the whole company.
- Individual store will be unit sales for an individual store

Lowe's can report Inventory Information.

- On Hand, On Order and On Requisition can be sent for any level of reporting. "On Hand" is the quantity available to sell at a store or what is available at the distribution center. "On Order" for a store or a distribution center refers to the quantity on order from a vendor. "On requisition" refers to the quantity on order from the distribution center to the store.
- Order receipts may be reported at the store, distribution center or company level.

Product is referenced using the Lowe's item number and will be sent in location number order unless company level reporting is requested, in which case it would be an aggregate file of all locations.

- The Lowe's item number is a 9 digit fixed-length value, filled with leading zeros.
- The DP qualifier is used in the LIN04 element as a Non-Stock item indicator. Under no circumstances should that item be replenished.

On-Hand Calculation-EDI 852 vs Vendor Dart:

If you are receiving POS data via Vendor Dart and EDI 852, you may notice a discrepancy in ON HAND count values. Two separate systems generate these files and each treats damages differently. (Damaged is defined as product returned by a customer that is damaged, product that is damaged when received, or product that is damaged in the store - IE-by a forklift.) EDI 852 POS EXCLUDES damaged quantities from on-hand counts because it assumes that damaged product is destroyed or returned to the vendor and is not kept as inventory for resale. VENDOR DART INCLUDES damaged quantities in on-hand counts because it assumes that most damaged items are re-sellable, can be returned to the sales floor to be sold at a mark down amount, are not returned to the vendor and are thus still a part of inventory.

General Information:

All POS data must be sent via AS2 communication profile (or a gateway service provider). Lowe's EDI WEBFORM does not support POS information; Webforms users are thereby not eligible to receive the 852 POS data. All EDI Business Examples and Specifications for the document can be found on www.loweslink.com, EDI Tab. If you have questions concerning your communication set-up, contact your EDI Coordinator listed on the link above under the Quick Reference document or your EDI Department.

Once your eligibility has been confirmed, the POS REQUEST FORM will forward to the Vendor DART Team to complete the setup. For revisions to 852 settings or data discrepancy issues (e.g., items not transmitting, sales or inventory not matching other reporting), please contact Vendor.DART@Lowe.com.

Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Mandatory
	GS	Functional Group Header	M	1			Mandatory

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Mandatory
020	XQ	Reporting Date/Action	M	1			Mandatory
040	N9	Reference Identification	O	>1			Mandatory

LOOP ID - N1

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
060	N1	Name	O	1	200	N1/060L	Mandatory

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<u>LOOP ID - LIN</u>					999999		
010	LIN	Item Identification	O	1			Mandatory
<u>LOOP ID - ZA</u>					>1	N2/080L	
080	ZA	Product Activity Reporting	M	1		N2/080	Mandatory
110	SDQ	Destination Quantity	O	>1			Mandatory

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	O	1		N3/010	Mandatory
020	SE	Transaction Set Trailer	M	1			Mandatory

Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	GE	Functional Group Trailer	M	1			Mandatory
	IEA	Interchange Control Trailer	M	1			Mandatory

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Mandatory

Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

Example:

```
ISA*00*      *00*      *01*006097142  *01*RECEIVER ID  *030222*103*U*00400*000002746*0*P*>\
```

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	Mandatory	1
CodeList Summary (Total Codes: 7, Included: 1)							
Code Name							
00 No Authorization Information Present (No Meaningful Information in I02)							
ISA02	I02	Authorization Information	M	AN	10/10	Mandatory	1
ISA03	I03	Security Information Qualifier	M	ID	2/2	Mandatory	1
CodeList Summary (Total Codes: 2, Included: 1)							
Code Name							
00 No Security Information Present (No Meaningful Information in I04)							
ISA04	I04	Security Information	M	AN	10/10	Mandatory	1
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Mandatory	1
CodeList Summary (Total Codes: 38, Included: 1)							
Code Name							
01 Duns (Dun & Bradstreet)							
ISA06	I06	Interchange Sender ID	M	AN	15/15	Mandatory	1
Please note: Lowe's Sender ID will be 006097142							
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Mandatory	1
All valid X12 codes are used. (Total Codes: 38)							
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Mandatory	1
ISA09	I08	Interchange Date	M	DT	6/6	Mandatory	1
ISA10	I09	Interchange Time	M	TM	4/4	Mandatory	1
ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1	Mandatory	1
All valid X12 codes are used. (Total Codes: 1)							
ISA12	I11	Interchange Control Version Number	M	ID	5/5	Mandatory	1
CodeList Summary (Total Codes: 14, Included: 1)							
Code Name							
00400 Standard Issued as ANSI X12.5-1997							
ISA13	I12	Interchange Control Number	M	N0	9/9	Mandatory	1
ISA14	I13	Acknowledgment Requested	M	ID	1/1	Mandatory	1
CodeList Summary (Total Codes: 2, Included: 1)							

Code Name

0 No Acknowledgment Requested

ISA15 I14 **Usage Indicator** M ID 1/1 Mandatory 1

CodeList Summary (Total Codes: 3, Included: 2)

Code Name

P Production Data

T Test Data

ISA16 I15 **Component Element Separator** M 1/1 Mandatory 1

GS Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Mandatory

Purpose: To indicate the beginning of a functional group and to provide control information

Example:

GS*PD*006097142*RECEIVER ID*20030222*1013*249*X*004010\

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
GS01	479	Functional Identifier Code	M	ID	2/2	Mandatory	1
CodeList Summary (Total Codes: 234, Included: 1)							
Code Name							
PD Product Activity Data (852)							
GS02	142	Application Sender's Code	M	AN	2/15	Mandatory	1
GS03	124	Application Receiver's Code	M	AN	2/15	Mandatory	1
GS04	373	Date	M	DT	8/8	Mandatory	1
GS05	337	Time	M	TM	4/8	Mandatory	1
GS06	28	Group Control Number	M	N0	1/9	Mandatory	1
GS07	455	Responsible Agency Code	M	ID	1/2	Mandatory	1
CodeList Summary (Total Codes: 2, Included: 1)							
Code Name							
X Accredited Standards Committee X12							
GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12	Mandatory	1
CodeList Summary (Total Codes: 36, Included: 1)							
Code Name							
004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997							

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

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

Example:

ST*852*000000358\

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Mandatory	1

CodeList Summary (Total Codes: 298, Included: 1)

Code Name

852 Product Activity Data

ST02	329	Transaction Set Control Number	M	AN	4/9	Mandatory	1
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XQ Reporting Date/Action

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 3

User Option (Usage): Mandatory**Purpose:** To specify reporting date and action to be taken**Example:**

XQ*H*20030215*20030221\

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
XQ01	305	Transaction Handling Code	M	ID	1/2	Mandatory	1

CodeList Summary (Total Codes: 23, Included: 1)**Code Name**

H Notification Only

XQ02	373	Date	M	DT	8/8	Mandatory	1
------	-----	------	---	----	-----	-----------	---

User Note 1: Begin date of report period

XQ03	373	Date	M	DT	8/8	Mandatory	1
------	-----	------	---	----	-----	-----------	---

User Note 1: End date of report period

N9 Reference Identification

Pos: 040	Max: >1
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Please note:

The N9 segment occurs 3 times.

Example:

```
N9*IA*000012345\
N9*BT*200302229999999\
N9*DD*USD\
```

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
N901	128	Reference Identification Qualifier	M	ID	2/3	Mandatory	1

CodeList Summary (Total Codes: 1475, Included: 3)

Code Name

BT BATCH NUMBER (can be used to determine file history)

DD COUNTRY OF BUSINESS (USD=US Data; CAD=Canada Data)

IA LOWE'S ASSIGNED HOME OFFICE VENDOR NUMBER (9 digit format)

N902	127	Reference Identification	C	AN	1/15	Mandatory	1
------	-----	--------------------------	---	----	------	-----------	---

N1 Name

Pos: 060	Max: 1
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Mandatory

Purpose: To identify a party by type of organization, name, and code

Please note:

The N1 segment occurs one time and is used to indicate the level of reporting - Corporate, Store or RDC.

Example:

N1*SN*STORE LEVEL\

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
N101	98	Entity Identifier Code	M	ID	2/3	Mandatory	1

CodeList Summary (Total Codes: 1312, Included: 3)

Code Name

CQ COMPANY (Aggregated data noted in SDQ as 0998 for Lowe's US or 0912 for Lowe's Canada)

SN STORE (Data for each retail location and each RDC)

WH RDC (Data for each RDC)

N102	93	Name	C	AN	1/60	Optional	1
------	----	-------------	---	----	------	----------	---

User Note 1:

When N101=CQ, N102=COMPANY LEVEL

When N101=SN, N102=STORE LEVEL

When N101=WH, N102=RDC LEVEL

LIN Item Identification

Pos: 010	Max: 1
Detail - Optional	
Loop: LIN	Elements: 4

User Option (Usage): Mandatory

Purpose: To specify basic item identification data

Please note:

LIN04 and LIN05 are used to indicate item status. When LIN04 is DP, the item is non-stock.

Example:

```
LIN**IN*000123456*ZZ*000123456\
```

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Mandatory	1
CodeList Summary (Total Codes: 477, Included: 1)							
Code Name							
IN LOWE'S ITEM NUMBER							
LIN03	234	Product/Service ID	M	AN	9/9	Mandatory	1
User Note 1: Lowe's item number will be 9 characters with leading zeros.							
LIN04	235	Product/Service ID Qualifier	M	ID	2/2	Mandatory	1
CodeList Summary (Total Codes: 477, Included: 2)							
Code Name							
DP NON-STOCK ITEM							
ZZ STOCK ITEM							
LIN05	234	Product/Service ID	M	AN	9/9	Mandatory	1
User Note 1: Lowe's item number will be 9 characters with leading zeros.							

ZA Product Activity Reporting

Pos: 080	Max: 1
Detail - Mandatory	
Loop: ZA	Elements: 1

User Option (Usage): Mandatory

Purpose: To provide activity details concerning product being reported

Example:

ZA*QS\

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
ZA01	859	Activity Code	M	ID	2/2	Mandatory	1

CodeList Summary (Total Codes: 40, Included: 12)

Code Name

OQ	QUANTITY ON ORDER (\$)
QA	QUANTITY ON HAND (units)
QB	QUANTITY ON HAND (\$)
QC	QUANTITY ON REQUISITION FROM RDC (units)
QP	QUANTITY ON ORDER (units)
QR	QUANTITY RECEIVED (units)
QS	QUANTITY SOLD (units)
QW	REQUISITION QUANTITY RECEIVED (\$)
QX	QUANTITY ON REQUISITION FROM RDC (\$)
QZ	REQUISITION QUANTITY RECEIVED (units)
RE	QUANTITY SOLD (\$)
TS	QUANTITY RECEIVED (\$)

SDQ Destination Quantity

Pos: 110	Max: >1
Detail - Optional	
Loop: ZA	Elements: 22

User Option (Usage): Mandatory

Purpose: To specify destination and quantity detail

Please note:

- Lowe's locations will be 4 digits with leading zeros.
- Corporate level reporting uses location 0998 for Lowe's US and 0912 for Lowes Canada.
- Internet Sales will be reported under location 0907.
- Call Center Sales will be reported under location 0747.

Example:

STORE LEVEL:

SDQ*EA*93*1421*0*1436*0*1440*0*1500*0*1501*1*1502*10*1503*1*1504*10*1505*8*1506*4\

RDC LEVEL:

SDQ*EA*93*0955*7*0960*18*0961*16*0962*11*0965*12*0966*27*0990*2*0992*6*1419*65*1420*8\

CORPORATE LEVEL:

SDQ*EA*93*0998*64\

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
SDQ01	355	Unit or Basis for Measurement Code	M	ID	2/2	Mandatory	1
CodeList Summary (Total Codes: 794, Included: 1)							
Code Name							
EA EACH							
SDQ02	66	Identification Code Qualifier	O	ID	1/2	Optional	1
CodeList Summary (Total Codes: 215, Included: 1)							
Code Name							
93 Code assigned by the organization originating the transaction set							
SDQ03	67	Identification Code	M	AN	4/4	Mandatory	1
SDQ04	380	Quantity	M	R	1/15	Mandatory	1
SDQ05	67	Identification Code	C	AN	4/4	Optional	1
SDQ06	380	Quantity	C	R	1/15	Optional	1
SDQ07	67	Identification Code	C	AN	4/4	Optional	1
SDQ08	380	Quantity	C	R	1/15	Optional	1
SDQ09	67	Identification Code	C	AN	4/4	Optional	1
SDQ10	380	Quantity	C	R	1/15	Optional	1
SDQ11	67	Identification Code	C	AN	4/4	Optional	1
SDQ12	380	Quantity	C	R	1/15	Optional	1
SDQ13	67	Identification Code	C	AN	4/4	Optional	1
SDQ14	380	Quantity	C	R	1/15	Optional	1
SDQ15	67	Identification Code	C	AN	4/4	Optional	1
SDQ16	380	Quantity	C	R	1/15	Optional	1
SDQ17	67	Identification Code	C	AN	4/4	Optional	1

Product Activity Data - 852

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
SDQ18	380	Quantity	C	R	1/15	Optional	1
SDQ19	67	Identification Code	C	AN	4/4	Optional	1
SDQ20	380	Quantity	C	R	1/15	Optional	1
SDQ21	67	Identification Code	C	AN	4/4	Optional	1
SDQ22	380	Quantity	C	R	1/15	Optional	1

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

Purpose: To transmit a hash total for a specific element in the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
CTT01	354	Number of Line Items	M	N0	1/6	Mandatory	1
CTT02	347	Hash Total	O	R	1/10	Optional	1

SE Transaction Set Trailer

Pos: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
SE01	96	Number of Included Segments	M	NO	1/10	Mandatory	1
SE02	329	Transaction Set Control Number	M	AN	4/9	Mandatory	1

GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

Purpose: To indicate the end of a functional group and to provide control information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
GE01	97	Number of Transaction Sets Included	M	N0	1/6	Mandatory	1
GE02	28	Group Control Number	M	N0	1/9	Mandatory	1

IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
IEA01	I16	Number of Included Functional Groups	M	N0	1/5	Mandatory	1
IEA02	I12	Interchange Control Number	M	N0	9/9	Mandatory	1