

LOWE'S EDI

Revised 852 Product Activity Data

Version: 004010 Final

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852**Product Activity Data****Functional Group=PD**

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:

Lowe's can transmit actual sales, on hand, on order, order receipts and forecast information (quantities and dollars will be reported for each metric upon request from Vendor) to our vendors through the use of the 852 - Product Activity Data document. By sharing sales data, our vendors should be able to plan their production to more closely match what is actually selling. By knowing what is selling and when, vendors should be able to increase service levels and fill rates for those products selling well and identify and reduce inventory for those products not selling well. It also provides a unique opportunity for our vendors to monitor and recommend assortment changes. The ability to provide sales and inventory also enables Lowe's to enter into a vendor managed inventory (VMI) agreement with our vendors, if applicable. It is important to note that sales data will only be sent if a vendor can document what they will do with the data and how it will be used to Lowe's ultimate advantage. To do otherwise, would only create an additional expense to Lowe's. Vendors should only ask for the amount of data they are prepared to use effectively.

Lowe's has developed a new process in determining item visibility. Lowe's uses 24 months of purchase order history to determine vendor, item and location relationship. If a purchase order is on file for the last 24 months for a given vendor, item and location then the item will be displayed in your 852. In building vendor, item and location relationships there is potential for inaccurate reporting. In situations where an item is multi-sourced (supplied by more than one home office vendor number) in the same store, Lowe's does not currently have the ability to "BREAK DOWN" POS by Vendor. This issue is a result of using item number instead of UPC. The values reported will be reported at the item level and not per vendor. So each vendor will have visibility to the entire item for that location. In addition, if vendors replenish the same item from multiple home Office vendors in the same store then POS data will be overstated if combined in your shop.

(Note: New items will begin appearing when the purchase order for that new item is received in either the RDC or the location.)

Lowe's Sales data may be sent daily or weekly (Saturday only) for an item number at the store, distribution center or company level. Lowe's can transmit Sales information as follows:

- On a daily basis - sales sent every day of the week containing previous day's sales information.
- On a weekly basis - sales sent for the seven days prior to the transmission (Saturday through Friday ONLY; which matches Lowe's fiscal week).

The sales information can be aggregated by location as follows:

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

(Note: All locations will be sent with leading zeros to comprise a 4 digit store number. Company level reporting will use location number 0998)

Conditionally, Lowe's can transmit:

- 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 refers to the quantity on order from a vendor. "On Order" for 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.

In addition, Lowe's can transmit order receipts and Forecast Parameters at the store, distribution center or company level. These metrics will be made available at the beginning of 3rd quarter 2003.

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. (NOTE: Lowe's has changed the structure of the item number to reflect a 9 digit fixed value, filled with leading zeros. In addition, the DP qualifier in the fourth element of any LIN segment, with a Lowe's item number in the fifth element of that same LIN segment, indicates a Non-Stock item. Under no

circumstances should that item be replenished.)

A vendor profile is created at start-up, which determines the frequency of transmissions, how to aggregate sales, how to reference the product. In order to receive Sales and Inventory with amounts Lowe's requires the transmission to be sent via AS2. Lowe's will make a determination upon setup whether AS1 or AS2 will be needed. Smaller vendors may receive this additional information via AS1 if file size allows. Again, Lowe's will make this determination on a vendor by vendor basis. Upon implementation, we can provide up to 24 months of sales history via transmission or CD depending on size of file.

It is your responsibility to inform Lowe's Vendor DART Analyst when you are ready to receive our electronic sales data. At that time, we will transmit all files as production unless otherwise informed.

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			Optional

LOOP ID - N1 200 N1/060L

060	N1	Name	O	1		N1/060	Mandatory
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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>					<u>999999</u>		
010	LIN	Item Identification	O	1			Mandatory

LOOP ID - ZA >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

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
		<u>Code</u> <u>Name</u>					
		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
		<u>Code</u> <u>Name</u>					
		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
		<u>Code</u> <u>Name</u>					
		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.					
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.					
ISA12	I11	Interchange Control Version Number	M	ID	5/5	Mandatory	1
		<u>Code</u> <u>Name</u>					
		00400 Standard Issued as ANSI X12.5-1997					
ISA13	I12	Interchange Control Number	M	NO	9/9	Mandatory	1
ISA14	I13	Acknowledgment Requested	M	ID	1/1	Mandatory	1
		<u>Code</u> <u>Name</u>					
		0 No Acknowledgment Requested					
ISA15	I14	Usage Indicator	M	ID	1/1	Mandatory	1
		<u>Code</u> <u>Name</u>					
		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

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
		<u>Code</u> <u>Name</u>					
		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
		<u>Code</u> <u>Name</u>					
		X Accredited Standards Committee X12					
GS08	480	Version / Release / Industry Identifier	M	AN	1/12	Mandatory	1
		<u>Code</u> <u>Name</u>					
		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

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
		Code Name					
		852 Product Activity Data					
ST02	329	Transaction Set Control Number	M	AN	4/9	Mandatory	1

XQ**Reporting Date/Action**

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

User Option (Usage): Mandatory

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 <u>Code</u> <u>Name</u> H Notification Only	M	ID	1/2	Mandatory	1
XQ02	373	Date Please note: XQ02 will contain the BEGINNING DATE	M	DT	8/8	Mandatory	1
XQ03	373	Date Please note: XQ03 will contain the ENDING DATE	M	DT	8/8	Mandatory	1

N9**Reference Identification**

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

User Option (Usage): Optional

To transmit identifying information as specified by the Reference Identification Qualifier

Please note::

You will receive 2 N9 segments.

The 1st N9 will contain the Home Office Vendor number which will determine which Vendor's Point Of Sale data is included.

The 2nd N9 will contain a batch number which can be used to determine file history.

Example:

N9*IA*123456789\
 N9*BT*200302229999999\

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 Please note: Home Office vendor numbers will be sent with leading zeros to comprise a nine digit number. <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>BT</td><td>Batch Number</td></tr><tr><td>IA</td><td>Internal Vendor Number</td></tr></table>	<u>Code</u>	<u>Name</u>	BT	Batch Number	IA	Internal Vendor Number	M	ID	2/3	Mandatory	1
<u>Code</u>	<u>Name</u>												
BT	Batch Number												
IA	Internal Vendor Number												
N902	127	Reference Identification	C	AN	1/30	Optional	1						

N1**Name**

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

User Option (Usage): Mandatory

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

Please note::

Distribution Center reporting will include information for each RDC as well as each location(s) supported by that Distribution Center.

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
		<u>Code</u>		<u>Name</u>			
		CQ		Corporate Office			
		SN		Store			
		WH		Warehouse			
		Please note:					
		Distribution Center reporting will include information for each RDC as well as each location(s) supported by that Distribution Center.					
N102	93	Name	C	AN	1/60	Optional	1

LIN**Item Identification**

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

User Option (Usage): Mandatory

To specify basic item identification data

Please note::

LIN04 and LIN05 are Lowe's mandatory elements.

Example:

LIN**IN*123456789*ZZ*123456789\

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
		<u>Code</u> <u>Name</u>					
		IN Buyer's Item Number					
LIN03	234	Product/Service ID	M	AN	1/48	Mandatory	1
		Please note: Lowe's item number will be 9 characters with preceeding zeros.					
LIN04	235	Product/Service ID Qualifier	M	ID	2/2	Mandatory	1
		<u>Code</u> <u>Name</u>					
		DP Non-Stock Part Number					
		ZZ Mutually Defined					
LIN05	234	Product/Service ID	M	AN	1/48	Mandatory	1
		Please note: Lowe's item number will be 9 characters with preceeding zeros.					

ZA**Product Activity Reporting**

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

User Option (Usage): Mandatory

To provide activity details concerning product being reported

Please note::

The following Activity Codes (HL, QL & QN) are ONLY available in weekly file transmissions.

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
		<u>Code</u>		<u>Name</u>			
		HL		Quantity on Hold			
				Please note:			
				HL=Safety Stock			
		OQ		Planned Order Quantity			
				Please note:			
				OQ= QUANTITY ON ORDER \$(s)			
		QA		Current Inventory Quantity Available for Shipment or Sale			
				Please note:			
				QA= QUANTITY ON HAND			
		QB		Beginning Balance Quantity			
				Please note:			
				QB= QUANTITY ON HAND \$(s)			
		QC		Quantity Committed			
				Please note:			
				QC= QUANTITY ON REQUISITION FROM RDC			
		QL		Minimum Inventory Quantity			
				Please note:			
				QL= COUNTER STOCK			
		QN		Planned Inventory Quantity			
				Please note:			
				QN= DD SETTING			
		QP		Quantity On Order, Not Yet Received			
				Please note:			
				QP= QUANTITY ON ORDER			
		QR		Quantity Received			
				Please note:			
				QR= QUANTITY RECEIVED			
		QS		Quantity Sold			
				Please note:			
				QS= QUANTITY SOLD			
		QW		Quantity Withdrawn from Warehouse Inventory			
				Please note:			
				QW= REQUISITION QUANTITY RECEIVED \$(s)			
		QX		Quantity Requested (Will Override Replenishment Planning)			
				Please note:			

QZ

QX= QUANTITY ON REQUISITION FROM RDC \$(s)
Quantity Transferred
Please note:
QZ= REQUISITION QUANTITY RECEIVED

RE

Retail Sales Quantity
Please note:
RE= QUANTITY SOLD \$(s)

TS

Total Sales Quantity
Please note:
TS= QUANTITY RECEIVED \$(s)

SDQ Destination Quantity

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

User Option (Usage): Mandatory

To specify destination and quantity detail

Please note::

1. Lowe's locations will be 4 characters with preceeding zeros.
2. Corporate level reporting will use the default location of 0998.
3. Internet Sales will be reported under location 0747 AND 1300.

Example:

SDQ*EA*93*0001*1*0002*1*0003*10*0004*1*0005*1*0006*1*0007*1*0008*1*0009*1*0010*1\

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SDQ01	355	Unit or Basis for Measurement Code	M	ID	2/2	Mandatory	1
		<u>Code</u> <u>Name</u>					
		EA Each					
		PC Piece					
SDQ02	66	Identification Code Qualifier	O	ID	1/2	Optional	1
		<u>Code</u> <u>Name</u>					
		93 Code assigned by the organization originating the transaction set					
SDQ03	67	Identification Code	M	AN	2/80	Mandatory	1
SDQ04	380	Quantity	M	R	1/15	Mandatory	1
SDQ05	67	Identification Code	C	AN	2/80	Optional	1
SDQ06	380	Quantity	C	R	1/15	Optional	1
SDQ07	67	Identification Code	C	AN	2/80	Optional	1
SDQ08	380	Quantity	C	R	1/15	Optional	1
SDQ09	67	Identification Code	C	AN	2/80	Optional	1
SDQ10	380	Quantity	C	R	1/15	Optional	1
SDQ11	67	Identification Code	C	AN	2/80	Optional	1
SDQ12	380	Quantity	C	R	1/15	Optional	1
SDQ13	67	Identification Code	C	AN	2/80	Optional	1
SDQ14	380	Quantity	C	R	1/15	Optional	1
SDQ15	67	Identification Code	C	AN	2/80	Optional	1
SDQ16	380	Quantity	C	R	1/15	Optional	1
SDQ17	67	Identification Code	C	AN	2/80	Optional	1
SDQ18	380	Quantity	C	R	1/15	Optional	1
SDQ19	67	Identification Code	C	AN	2/80	Optional	1
SDQ20	380	Quantity	C	R	1/15	Optional	1
SDQ21	67	Identification Code	C	AN	2/80	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

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

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	N0	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

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

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