

https://verifone.cloud/docs/sca-functional-specification/payment_func/line_item_display/add_merchandise Updated: 23-Sep-2025

Add Merchandise/Offer

This command adds a line item to the payment transaction and displays line items on the device where possible. Line items can be added when on any screen within the session.

Rules

- 1. LINE_ITEM_IDs must be declared in the transaction before they can be referenced (example, an offer cannot reference merchandise that is below it in the message).
- 2. The session should be active and LINEITEMDISPLAY parameter should be enabled.

Configuration Parameter

Following are the configuration parameters which affect the operation. Refer to <u>Application Parameters</u> table for more details on the below parameter.

- LINEITEMDISPLAY
- FULLLIDISPLAYENABLED

ADD (Message Interface)

The following tables provide corresponding device UI interactions, detailed protocol information, including field descriptions and examples.

Note

- LINE_ITEM_IDs must be declared in the transaction before they can be referenced (e.g., an offer cannot reference merchandise that is below it in the message).
- Refer to <u>Displaying Line-Item Fields on Device</u> table for details on request fields which are displayed on the device.

Note

Neo device (M450) is being used to capture screenshots for the Device UI Requirement section.

Rule

	Display				User Action	Terminal Action
06:40	Line Items	Qty		△ 🤝 Line Total		
	Snails LI 1101	1	\$ \$	4.00 3.00		
. verifone	Roasted Cricket Mud Shake Chocolate Ants	3 3 2	\$ \$ \$	3.00 6.00 10.00		
	Worm Wrench Hand Shoes	1	\$	3.00 10.00	No action	The device displays the added line items screen.
	Wooden Gloves Air Holder	1 5	\$	7.00 5.00		The tions sereon.
	••>	Tax		\$ 120.00		
WELCOME		otal		\$ 120.00		

Request Packet

Field

		~ -			• •	_
FUNCTION_TYPE	Reguired	tatic alue	N/A	N/A	LINE_ITEM	Type of funct
COMMAND	Remiirea	tatic alue	N/A	N/A	ADD	Command na
RUNNING_SUB_TOTAL	Optional po	loating pint umber	1(2)	6(2)		Running subte This field supports negate amounts. NO If this tag is not sent in the request, subted will not be shown the screen/terminity will be erast it was shown the previous I. Item request.

Type Minimum Maximum

Description

Example: 1.0

Value(s)

Field	Rule	Type	Minimum	Maximum	Value(s)	Descriptio
RUNNING_TAX_AMOUNT	Required	Floating point number	1(2)	6(2)		Running tax t of the transac This field supports nega amounts. Example: 0.0
RUNNING_TRANS_AMOUNT	Required	Floating point number	1(2)	6(2)		Running total the transaction This field supports negation amounts. Example: 1.0
RUNNING_DISCOUNT_AMOUNT	Required	Floating point number	1(2)	6(2)		Discount amo This field is n supported on e235 device a cannot be made visible on Lin Item screen d to space constraint. Example: - 999999.99
LINE_ITEMS	Optional	List	N/A	N/A	MERCHANDISEOFFER	and OFFER Child Elemen sections below for list of chil elements.
POS_RECON	Optional	Character	· 1	30		POS reconciliation POS Reconciliation field to be ech back in respon to POS. Example: RetailPOS1

Field	Rule Type M	inimum Maximum	Value(s)	Descriptio
COUNTER	Required Numeric 1	10		COUNTER is used for a giv MAC label. E COUNTER should be highthan the last of This is sed to authenticate the POS. Example 100
MAC	Base64 Required Encoded N/ Data	A N/A		Message Authenticatio Code. This is used to authenticate to POS.
MAC_LABEL	Required Character 1	50		Associated lathat tells the device which MAC_KEY to use to decryptivalue of MAC This is used to authenticate the POS. Examp

REG1

MERCHANDISE Child Elements

Note

Adds merchandise to the transaction. Displayed on screen or printed on receipt, as supported by device type.

Field	Rule T	ype	Minimum	Maximum	Value(s)	Description
LINE_ITEM_ID	Required Num	meric	1	10		Line item identifier supplied by the POS. This must be unique to the payment transaction. Example: 1
SKU	Optional Cha	ıracteı	:1	50		Optional MERCHANDISE element. Example: V4C3D5R2

	Field	Rule	Type	Minimum	n Maximum	Value(s)	Description
UPC		Optional	Characte	r 1	50		Optional MERCHANDISE element. Example: 521675964352

Field Rule **Type Minimum Maximum** Value(s) **Description** Text description of line item. Example: Apple Pie. NOTE: Full line item screen must be configured for description > 17 characters. For this Description field, the number of characters supported in a line item (in a single line without line break) are the following: On small screens devices (like e, V and P series), if the content length of the Description field is more than the value mentioned above, then it will take the next line and it may affect the alignment of the content. • M400 -**DESCRIPTION** 17 or 40 Optional Character 1 25 (Full Screen), 12 (Split Screen) • M440 -40 (Full Screen), 21 (Split Screen) • M424 -37 (Full Screen), 15 (Split Screen) • E280 - 8 (Full Screen) • E285 - 8 (Full Screen) • V/P200 -7 (Full Screen) V/P400 -

6 (Full Screen)

Field	Rule	Type	Minimum	Maximum	n V	alue(s)	Description
QUANTITY	Optional	Numeric	1	10			Number of items. The quantity area will be blank for this line item if QUANTITY is not sent. Example: 2
UNIT_PRICE	Optional	Floating point number	1(2)	6(2)			Single item price without tax. This field supports negative amounts. Example: 0.50. NOTE: This field is not applicable to Neo devices (VOS3). Neo device does not have any column for unit price in Line Item screen.
EXTENDED_PRICE	Optional	Floating point number	1(2)	6(2)			Price of the entire quantity of this line item (Qty x Unit Price). This field supports negative amounts. The extended price area will be blank for this line item if EXTENDED_PRICE is not sent. Example: 1.00
FONT_COL_VALUE	E Optional	Character	6	6	Values:	 (Red) FF0000 (Green) 00FF00 (Blue) 0000FF (Black) 000000 - Default (Magenta) FF00FF 	Text color for line item display (RGB hex color value). Defaults is black if not present.

Note

Adds coupons/ discounts to merchandise.

Field	Rule	Type	Minimum	n Maximum	Value(s)	Description
TYPE	Required 1	List			MERCHANT_COUPONLOYALTY_CARDMANUFACTURER_COUPONOTHER_COUPON	This indicates the type of offer being applied.
LINE_ITEM_ID	Required 3	Numeric	1	10		Line item identifier supplied by the POS. This must be unique to the payment transaction. Example: 1
SKU	Optional	Character	1	50		Optional OFFER element. Example: V4C3D5R2
DESCRIPTION	Required	Character	1	17		OFF Text description of offer. Example: 10%
OFFER_AMOUNT	Required 1	Floating point number	1(2)	6(2)		Amount to subtract from the transaction. Example: 0.10
OFFER_LINE_ITEM	Optional 1	Numeric	1	10		Line Item ID to which this is applied. Example: 1

Field	Rule	Type	Minimum I	Maximum		Value(s)	Description
FONT_COL_VALUE	Optional	Characte	c 6 6	5	Values:	 (Red) FF0000 (Green) 00FF00 (Blue) 0000FF (Black) 000000 - Default (Magenta) FF00FF 	Text color for line item display (RGB hex color value). Defaults is black if not present.

Example

Following is an example of request packet

```
<TRANSACTION>
        <FUNCTION_TYPE>LINE_ITEM</FUNCTION_TYPE>
        <COMMAND>ADD</COMMAND>
        <COUNTER>1</COUNTER>
        <MAC> ... </MAC>
        <MAC_LABEL>REG2</MAC_LABEL>
        <RUNNING DISCOUNT AMOUNT>999999.99/RUNNING DISCOUNT AMOUNT>
        <RUNNING_SUB_TOTAL>999999.99/RUNNING_SUB_TOTAL>
        <RUNNING TAX AMOUNT>999999.99/RUNNING TAX AMOUNT>
        <RUNNING_TRANS_AMOUNT>999999.99/RUNNING_TRANS_AMOUNT>
        <LINE_ITEMS>
                <MERCHANDISE>
                        <UNIT PRICE>5.00</UNIT PRICE>
                        <DESCRIPTION>#1 Combo Meal</DESCRIPTION>
                        <LINE_ITEM_ID>1695155651</LINE_ITEM_ID>
                        <EXTENDED_PRICE>5.00</EXTENDED_PRICE>
                        <QUANTITY>1</QUANTITY>
                </MERCHANDISE>
                <MERCHANDISE>
                        <UNIT PRICE>5.00</UNIT PRICE>
                        <DESCRIPTION>#1 Combo Meal</DESCRIPTION>
                        <LINE ITEM ID>1695155652</LINE ITEM ID>
                        <EXTENDED_PRICE>5.00</EXTENDED_PRICE>
                        <QUANTITY>1</QUANTITY>
                </MERCHANDISE>
                <OFFER>
                        <TYPE>OTHER_COUPON</TYPE>
                        <LINE ITEM ID>1695155653</LINE ITEM ID>
                        <DESCRIPTION>EmpDisc/DESCRIPTION>
                        <OFFER_AMOUNT>2.00</OFFER_AMOUNT>
                        <OFFER_LINE_ITEM>1695155651</OFFER_LINE_ITEM>
                </OFFER>
                <OFFER>
                        <TYPE>MERCHANT_COUPON</TYPE>
                        <LINE ITEM ID>1695155654</LINE ITEM ID>
                        <DESCRIPTION>10ffAnyPurch</DESCRIPTION>
                        <OFFER AMOUNT>1.00</OFFER AMOUNT>
```

</OFFER>

</LINE_ITEMS>

</TRANSACTION>

Displaying Line-Item Fields on Device

Field Name	Display on Device
RUNNING_SUB_TOTAL	Yes
RUNNING_TAX_AMOUNT	Yes
RUNNING_TRANS_AMOUNT	Yes - Displays as Total
RUNNING_DISCOUNT_AMOUNT	Yes - Displays as Discount
LINE_ITEMS - MERCHANDISE	 LINE_ITEM_ID - No Display SKU - No Display UPC - No Display DESCRIPTION - Yes QUANTITY - Yes UNIT_PRICE - No Display EXTENDED_PRICE - Yes FONT_COL_VALUE - Yes
LINE_ITEMS - OFFER(s)	 LINE_ITEM_ID - No Display SKU - No Display DESCRIPTION - Yes OFFER_AMOUNT - Yes OFFER_LINE_ITEM - No Display FONT_COL_VALUE - Yes

Response Packet

Field	Type	Value	Description
RESPONSE_TEXT	Character		Processor response text. Example: Added line items.
RESULT	Character	•	This indicates the Result details. Example: OK
RESULT_CODE	Numeric	Expected result codes: -1, 59004, 59040, 59042, 59044, 59045, 59046, 59047, 59048, 59028	This indicates the result code.

Field	Type	Value	Description	
TERMINATION_STATU	ΓΑΤUS Character SUCCESS or FAILURE		This indicates the transaction termination status. This is the overall status of the transaction irrespective of approved or declined. Like, if the output is generated then the status is SUCCESS and if no output is generated then the status will be FAILURE.	
POS_RECON	Character		POS reconciliation field echoed back if sent in request. Example: RetailPOS1	
COUNTER	Numeric		Echoes COUNTER sent in the request. Example: 100	

Transaction Performance Metric

Note

These fields are returned, if SCAPERFMETRIC parameter (Application Parameters) is enabled.

Field	Type Value	Description
UI_TIME	Time	This indicates the time duration, for which the device screen is displayed (like error message, prompt screen, remove card screen) till any user action is performed in the command execution flow. This field is not applicable to capture the time for the Processing, Authorizing and transaction status screen. The format of the returned value would be S.sss, where S is seconds (this can be 0 to any positive integer) and sss is milliseconds. In case of any insignificant time or 0.000 value, will not be returned in the response. Example: <ui_time>44.028</ui_time>
HOST_TIME	Time	This indicates the time taken for the Connection to the host, sending request and receives data from the host. This field also take the cumulative time for multiple requests which may sent to the host during the transaction including two legged transactions, timeout requests, Auto Last Tran requests, DCC, Credit app proxy. The format of the returned value would be S.sss, where S is seconds (this can be 0 to any positive integer) and sss is milliseconds. In case of any insignificant time or 0.000 value, will not be returned in the response. Example: <pre>HOST_TIME>1.389</pre> HOST_TIME>
CMD_TIME	Time	This field indicates the total amount of time for a command, which is executed by the application from request received to the response sent. The format of the returned value would be S.sss, where S is seconds (this can be 0 to any positive integer) and sss is milliseconds. In case of any insignificant time or 0.000 value, will not be returned in the response. Example: <pre><cmd_time>70.765</cmd_time></pre> /CMD_TIME>

Example

Following is an example of response packet

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