



https://verifone.cloud/docs/sca-functional-specification/protocol_spec/line_item_display/add_merchandise

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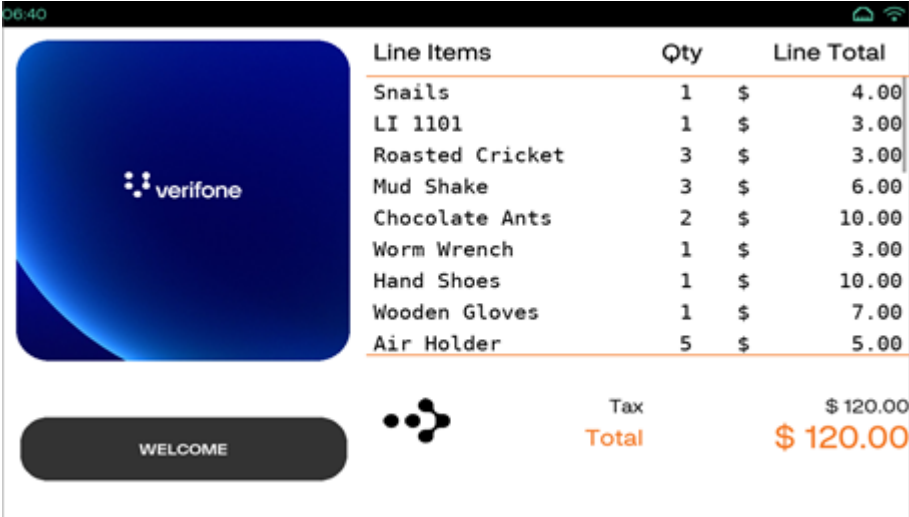
ADD

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.

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 [Displaying Line-Item Fields on Device](#) table for details on request fields which are displayed on the device.

Device UI Required

Display	User Action	Terminal Action
 <p>The screenshot shows a Verifone device screen with a blue background on the left and a white background on the right. The right side displays a list of line items with columns for 'Line Items', 'Qty', and 'Line Total'. The items are: Snails (1, \$4.00), LI 1101 (1, \$3.00), Roasted Cricket (3, \$3.00), Mud Shake (3, \$6.00), Chocolate Ants (2, \$10.00), Worm Wrench (1, \$3.00), Hand Shoes (1, \$10.00), Wooden Gloves (1, \$7.00), and Air Holder (5, \$5.00). Below the list, there is a 'Tax' section showing '\$120.00' and a 'Total' section showing '\$120.00' in orange. A 'WELCOME' button is visible at the bottom left.</p>	No action	The device displays the added line items screen.

Request Packet

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
FUNCTION_TYPE	Required	Static value	N/A	N/A	LINE_ITEM	Type of function

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
COMMAND	Required	Static value	N/A	N/A	ADD	Command name Running subtotal This field supports negative amounts. NO If this tag is not sent in the request, subtotal will not be shown on the screen/terminal; it will be erased if it was shown in the previous Item request. Example: 1.0
RUNNING_SUB_TOTAL	Optional	Floating point number	1(2)	6(2)		Running tax total of the transaction. This field supports negative amounts. Example: 0.0
RUNNING_TAX_AMOUNT	Required	Floating point number	1(2)	6(2)		Running total of the transaction. This field supports negative amounts. Example: 1.0
RUNNING_TRANS_AMOUNT	Required	Floating point number	1(2)	6(2)		Discount amount. This field is not supported on e235 device and cannot be made visible on Lin Item screen due to space constraint. Example: -999999.99
RUNNING_DISCOUNT_AMOUNT	Required	Floating point number	1(2)	6(2)		

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
LINE_ITEMS	Optional	List	N/A	N/A	<ul style="list-style-type: none"> MERCHANDISE OFFER 	Line items details. Refer MERCHANT Child Element and OFFER Child Element sections below for list of child elements.
POS_RECON	Optional	Character	1	30		POS reconciliation POS Reconciliation field to be echoed back in response to POS. Example: RetailPOS1
COUNTER	Required	Numeric	1	10		COUNTER is used for a given MAC label. E COUNTER should be higher than the last one. This is used to authenticate the POS. Example: 100
MAC	Required	Base64 Encoded Data	N/A	N/A		Message Authentication Code. This is used to authenticate the POS.
MAC_LABEL	Required	Character	1	50		Associated label that tells the device which MAC_KEY to use to decrypt value of MAC. This is used to authenticate the POS. Example: REG1

Note

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

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
LINE_ITEM_ID	Required	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 MERCHANDISE element. Example: V4C3D5R2
UPC	Optional	Character	1	50		Optional MERCHANDISE element. Example: 521675964352
						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.
DESCRIPTION	Optional	Character	1	17 or 40		<ul style="list-style-type: none"> • M400 - 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	Value(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	Optional	Character	6	6		Text color for line item display (RGB hex color value). Defaults is black if not present. Example values: <ul style="list-style-type: none"> • (Red) FF0000 • (Green) 00FF00 • (Blue) 0000FF • (Black) 000000 - Default • (Magenta) FF00FF

OFFER Child Elements

Note

Adds coupons/ discounts to merchandise.

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
TYPE	Required	List			<ul style="list-style-type: none"> • MERCHANT_COUPON • LOYALTY_CARD • MANUFACTURER_COUPON • OTHER_COUPON 	This indicates of offer being

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
LINE_ITEM_ID	Required	Numeric	1	10		Line item identifier supplied by the merchant. 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	Floating point number	1(2)	6(2)		Amount to subtract from the transaction. Example: 0.10
OFFER_LINE_ITEM	Optional	Numeric	1	10		Line Item ID to which this is applied. Example: 1
FONT_COL_VALUE	Optional	Character	6	6		Text color for item display (Hex color value). Default is black if not present. Example values: <ul style="list-style-type: none"> • (Red) FF0000 • (Cyan) 00FFFF • (Blue) 0000FF • (Black) 000000 • (None) Default • (None) FF

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>1offAnyPurch</DESCRIPTION>
    <OFFER_AMOUNT>1.00</OFFER_AMOUNT>
    <OFFER_LINE_ITEM>1695155651</OFFER_LINE_ITEM>
  </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

Field Name	Display on Device
LINE_ITEMS - MERCHANDISE	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • 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.
TERMINATION_STATUS	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: <HOST_TIME>1.389</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: <CMD_TIME>70.765</CMD_TIME>

Example

Following is an example of response packet

```
<RESPONSE>
  <RESPONSE_TEXT>Added line items</RESPONSE_TEXT>
  <RESULT>OK</RESULT>
  <RESULT_CODE>-1</RESULT_CODE>
  <TERMINATION_STATUS>SUCCESS</TERMINATION_STATUS>
  <COUNTER>1</COUNTER>
</RESPONSE>
```