

## Remove

This command removes line item(s) or ‘offer’(s).

## Rules

The session should be active and LINEITEMDISPLAY parameter should be enabled.

## Configuration Parameter

Following are the configuration parameters which affect the operation. Refer to [Application Parameters](#) table for more details on the below parameters.

- LINEITEMDISPLAY
- FULLLIDISPLAYENABLED
- LIMEDIAMODE
- RECEIPTLINEITEMDISPLAY

## REMOVE (Message Interface)

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

### Device UI Required

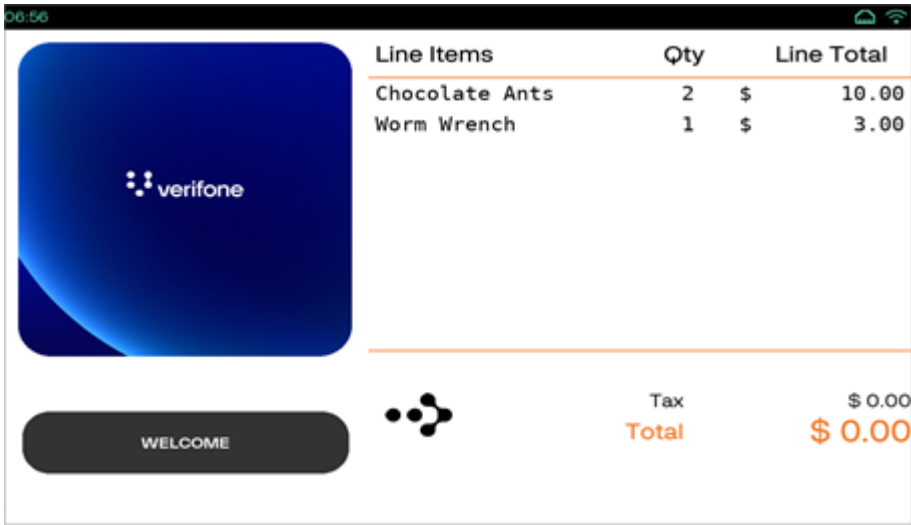
### Note

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

**Display**

**User  
Action**

**Terminal Action**



No action The device displays the removed 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
COMMAND	Required	Static value	N/A	N/A	REMOVE	Command name
LINE_ITEM_ID	Required	Numeric	1	10		Line item ID for the item/offer. <b>NOTE:</b> It can be a required field if one line item is needed to remove. Removing more than one line items, will be requested in <a href="#">MERCHANDISE Child Elements</a> and <a href="#">OFFER Child Elements</a> section in LINE_ITEM_ID as a required field. <b>Example:</b> 1
RUNNING_SUB_TOTAL	Optional	Floating point number	1(2)	6(2)		Running subtotal. This field supports negative amounts. <b>Example:</b> 0.00

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
RUNNING_TAX_AMOUNT	Optional	Floating point number	1(2)	6(2)		Running tax total of the transaction. This field supports negative amounts. <b>Example:</b> 0.00
RUNNING_TRANS_AMOUNT	Required	Floating point number	1(2)	6(2)		Running total of the transaction. This field supports negative amounts. <b>Example:</b> 0.00
RUNNING_DISCOUNT_AMOUNT	Required	Floating point number	1(2)	6(2)		Discount amount. This field is not supported on e235 device as it cannot be made visible on Line-Item screen due to space constraint. <b>Example:</b> -999999.99
POS_RECON	Optional	Character	1	30		POS reconciliation. POS Reconciliation field to be echoed back in response to POS. <b>Example:</b> RetailPOS1
COUNTER	Required	Numeric	1	10		COUNTER is used for a given MAC label. Each COUNTER should be higher than the last one. This is used to authenticate the POS. <b>Example:</b> 100

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
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 the value of MAC. This is used to authenticate the POS. <b>Example:</b> REG1

#### MERCHANDISE Child Elements

##### Note

Remove single or multiple merchandise items.

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
LINE_ITEM_ID	Required	Numeric	1	10	Ex: 1	Line item identifier supplied by the POS. This must be unique to the payment transaction. <b>Example:</b> 1

#### OFFER Child Elements

##### Note

Remove single or multiple coupons/ discounts to merchandise.

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. <b>Example:</b> 1

##### Example

Following is an example of request packet

```

<TRANSACTION>
  <FUNCTION_TYPE>LINE_ITEM</FUNCTION_TYPE>
  <COMMAND>REMOVE</COMMAND>
  <COUNTER>100</COUNTER>
  <MAC> ... </MAC>
  <MAC_LABEL>REG2</MAC_LABEL>
  <LINE_ITEM_ID>1695155651</LINE_ITEM_ID>
  <RUNNING_TRANS_AMOUNT>0.00</RUNNING_TRANS_AMOUNT>
  <RUNNING_TAX_AMOUNT>0.00</RUNNING_TAX_AMOUNT>
</TRANSACTION>

```

#### Response Packet

Field	Type	Value	Description
RESPONSE_TEXT	Character		Processor response text. <b>Example:</b> Operation SUCCESSFUL
RESULT	Character		This indicates the Result details. <b>Example:</b> OK
RESULT_CODE	Numeric	Expected result codes: -1, 59004, 59045	This indicates the result code.
TERMINATION_STATUS	Character	SUCCESS and 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. <b>Example:</b> RetailPOS1
COUNTER	Numeric		Echoes COUNTER sent in the request. <b>Example:</b> 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. <b>Example:</b> <UI_TIME>44.028</UI_TIME>

Field	Type	Value	Description
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. <b>Example:</b> <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. <b>Example:</b> <CMD_TIME>70 . 765</CMD_TIME>

#### Example

Following is an example of response packet

```
<RESPONSE>
  <RESPONSE_TEXT>Operation SUCCESSFUL</RESPONSE_TEXT>
  <RESULT>OK</RESULT>
  <RESULT_CODE>-1</RESULT_CODE>
  <TERMINATION_STATUS>SUCCESS</TERMINATION_STATUS>
  <COUNTER>100</COUNTER>
</RESPONSE>
```