

# **DISPLAY\_QRCODE**

This command directs the device to pass data of the QR code (provided by user) to be displayed. Here, the user is asking for the ability to pass a string of data to the application, and this will dynamically generate the QR code and display it on the POS.

# **Device UI Required:** Yes

## Request Packet

Field	Rule	Туре	Minimum	Maximum	Value(s)	Description
FUNCTION_TYPE	Required	Static value	N/A	N/A	DEVICE	Type of function.
COMMAND	Required	Static value	N/A	N/A	DISPLAY_QRCOD E	Command name
QRCODE_DATA	Required	Character	1	200		Textual data that will be constructed into a QR code image for display. This is the QR Code payload. Value represents web URL, coupon code, etc.  Example: https://www.verifone.com
DISPLAY_TEXT	Optional	Character	1	150		Instructions for consumer to use the QR code. If there is no data entered in this field, then no instructions will appear on the screen.  Example: Scan the QR code below for up-to-the-minute offers and coupons!



Field	Rule	Туре	Minimum	Maximum	Value(s)	Description
DISPLAY_TIMEOU T	Optional	Numeric	1	300		Duration of time to display the QR code, in seconds. If there is no value specified, the QR screen will remain till the next command from POS or until DONE button is pressed.  Example: 30
BUTTON_LABEL	Optional	Character	1	18		Optional text label for DONE button. Button displayed if the value is provided. Example: Continue Finished
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. Each COUNTER should be higher than the last one. This is used to authenticate the POS. <b>Example:</b> 100

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Field	Rule	Туре	Minimum	Maximum	Value(s)	Description
MAC	Required	Base64 Encoded Data	N/A	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

#### Example

Following is an example of request packet

<TRANSACTION>
<FUNCTION\_TYPE>DEVICE</FUNCTION\_TYPE>
<COMMAND>DISPLAY\_QRCODE</COMMAND>
<QRCODE\_DATA>https://www.verifone.com</QRCODE\_DATA>
<DISPLAY\_TEXT>Scan the QR code below </DISPLAY\_TEXT>
<DISPLAY\_TIMEOUT>10</DISPLAY\_TIMEOUT>
<DISPLAY\_BUTTONS>1</DISPLAY\_BUTTONS>
<BUTTON\_LABEL>PRESS AFTER SCAN</BUTTON\_LABEL>
</TRANSACTION>

# Response Packet

Field	Туре	Value	Description
RESPONSE_TEXT	Character	<ul> <li>For SUCCESS:         Operation SUCCESSFUL</li> <li>For TIMEOUT:         Cancelled by Timeout</li> <li>For CANCELLED:         Cancelled by Customer</li> </ul>	Processor response text.

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Field	Туре	Value	Description
RESULT	Character	• For SUCCESS: OK • For TIMEOUT: CANCELLED • For CANCELLED: CANCELLED	This indicates the Result details.
RESULT_CODE	Numeric	Expected result code:  • -1 : Success • 59000: TIMEOUT • 59001: CANCELLED	This indicates the result code.  Refer to Result/Error Codes for details.
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. <b>NOTE:</b> Termination status returns SUCCESS for successful operation and FAILURE for timeout and cancelled result.
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
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	ı	1
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></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. <b>Example:</b> HOST_TIME>1.389



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>
</RESPONSE>
```