SIGNATURE_EX

This command directs the device to capture signature from a customer while showing more disclaimer text on the screen.

> **Note**
>
> Signature data gathered outside of a transaction is sent back only to the POS and not to the Point/PAYware Connect gateway or host.

Device UI Required: Yes

Request Packet

Field	Rule	Type	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	SIGNATURE_EX	Command name.
DISPLAY_TEXT	Optional	Character	1	4000		Display text area allows lines of text to be displayed. Engage devices have limited text space available on screen. **Example:** *I Hereby Agree to Pay The Amount in Full*

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
FORMATTED_DIS PLAY_TEXT	Optional	Binary			• 0 - Applicati on does formattin g of the display text. • 1 - Applicati on expects POS to perform the formattin g and send it to the device.	Formatting the display text.
POS_RECON	Optional	Character	1	30		POS reconciliation. POS Reconciliation field to be echoed back in response to POS. **Example:** RetailPOS1
CHECKBOX_REQ	Optional	Boolean	N/A	N/A	TRUE/FALSE or Yes/No or 0/1	Checkbox requirement.
CHECKBOX_LABE L	Optional	Character		4000		Text to be displayed with check box. If this field is not provided, display text will default to what is in catalog files label SIGNATURE_DISC LAIMER (I Agree To The Terms And Conditions.).

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Field	Rule	Type	Minimum	Maximum	Value(s)	Description
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. **Example:** 100
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. **Example:** REG1

Example

Following is an example of request packet

```
<TRANSACTION>
<FUNCTION_TYPE>DEVICE</FUNCTION_TYPE>
<COMMAND>SIGNATURE_EX</COMMAND>
<DISPLAY_TEXT>I hereby agree</DISPLAY_TEXT>
<COUNTER>1</COUNTER>
<MAC> … </MAC>
<MAC_LABEL>REG2</MAC_LABEL>
</TRANSACTION>
```

Response Packet

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Field	Type	Value	Description
RESPONSE_TEXT	Character		Processor response text. **Example:** Signature Captured
RESULT	Character		This indicates the Result details. **Example:** OK
RESULT_CODE	Numeric	Expected result code: -1, 59001, 59006, 59040	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.
CHECKBOX_SEL	Character		If the checkbox is selected.
SIGNATUREDATA	Base 64 encoded data		Signature data.
MIME_TYPE	Character	Valid values: • BMP • TIFF • 3BA • PNG • RAW	Mime type of the signature image. **Example:** Ex: image/png, image/bmp. **NOTE:** The response data for MIME_TYPE field is depending on the value set in SIGIMAGETYPE parameter (Application Parameters).
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>`

Field	Type	Value	Description
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>
<TERMINATION_STATUS>SUCCESS</TERMINATION_STATUS>
<COUNTER>1</COUNTER>
<RESULT_CODE>-1</RESULT_CODE>
<RESULT>OK</RESULT>
<RESPONSE_TEXT>Signature Captured</RESPONSE_TEXT>
<MIMETYPE>image/bmp</MIMETYPE>
<SIGNATUREDATA> {base64 encoded data} </SIGNATUREDATA>
</RESPONSE>
```