

## 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.<br><b>Example:</b> /<br>Hereby Agree to<br>Pay The Amount<br>in Full |

| Field                  | Rule     | Type      | Minimum | Maximum | Value(s)   | Description  |
|------------------------|----------|-----------|---------|---------|--|--|
| FORMATTED_DISPLAY_TEXT | Optional | Binary    |         |         | <ul style="list-style-type: none"> <li>• 0 - Application does formatting of the display text.</li> <li>• 1 - Application expects POS to perform the formatting and send it to the device.</li> </ul> | Formatting the display text.   |
| POS_RECON              | Optional | Character | 1       | 30      |  | POS reconciliation. POS Reconciliation field to be echoed back in response to POS.<br><b>Example:</b><br>RetailPOS1  |
| CHECKBOX_REQ           | Optional | Boolean   | N/A     | N/A     | TRUE/FALSE or Yes/No or 0/1  | Checkbox requirement.  |
| CHECKBOX_LABEL         | 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_DISCLAIMER (I Agree To The Terms And Conditions.). |

| 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. <b>Example:</b> 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. <b>Example:</b> 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

| Field              | Type                 | Value  | Description   |
|--------------------|----------------------|--|---|
| RESPONSE_TEXT      | Character            |  | Processor response text.<br><b>Example:</b> Signature Captured  |
| RESULT             | Character            |  | This indicates the Result details.<br><b>Example:</b> OK  |
| RESULT_CODE        | Numeric              | Expected result code: -1, 59001, 59006, 59040  | This indicates the result code. Refer to <a href="#">Result/Error Codes</a> 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: <ul style="list-style-type: none"> <li>• BMP</li> <li>• TIFF</li> <li>• 3BA</li> <li>• PNG</li> <li>• RAW</li> </ul> | Mime type of the signature image. <b>Example:</b> Ex: image/png, image/bmp. <b>NOTE:</b> The response data for MIME_TYPE field is depending on the value set in SIGIMAGETYPE parameter ( <a href="#">Application Parameters</a> ).                                |
| POS_RECON          | Character            |  | POS reconciliation field echoed back if sent in request.<br><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> <code>&lt;UI_TIME&gt;44.028&lt;/UI_TIME&gt;</code>                     |
| 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> <code>&lt;HOST_TIME&gt;1.389&lt;/HOST_TIME&gt;</code> |

| 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. <b>Example:</b> <code>&lt;CMD_TIME&gt;70.765&lt;/CMD_TIME&gt;</code> |

#### 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>
```