

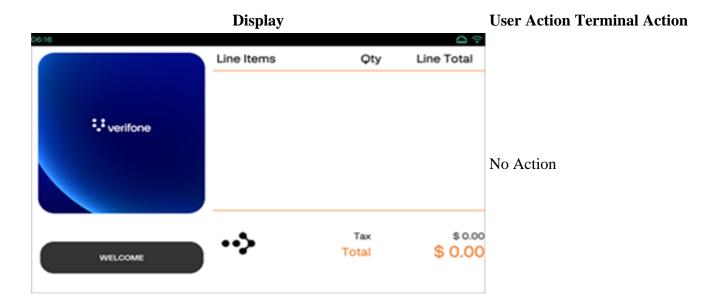
https://verifone.cloud/docs/sca-functional-specification/protocol_spec/administration/start_session

Updated: 23-Jul-2025

START SESSION

This command is used to start a new session. The session can be for a payment transaction or to display line item information.

Device UI Required



Request Packet

Field	Rule	Type	Minimun	n Maximum	value(s)	Description
FUNCTION_TYPE	Required	Static Value	N/A	N/A	SESSION	Type of function.
COMMAND	Required	Static Value	N/A	N/A	START	Command name.

Field	Rule	Type	Minimum	Maximun	value(s)	Description
INVOICE	Required	Character	: 1	40		Merchant invoice number Maximum 40 characters supported (A-Z, a-z, 0-9) this not case sensitive. All special characters are supported in INVOICE field. NOTE system should handle the maximum character limit invoice, based on the respond host used in the environment in case the lilless than 40. Worldpaly all numeric only; the value must be all zeroes. Example: TA1234
SWIPE_AHEAD	Optional	Binary	1	1	Possible values: • 0 - disabled • 1 - enabled	SWIPE_AHEAD is used to enable preswipe functional NOTE: Value being sent SWIPE_AHEAD will have precedence over IDLECARDENTRYENA parameter value (Applicat Parameters).
STORE_NUM	Optional	Character	1	6		Store number. Example: 3
LANE	Optional	Numeric	1	8		Used to identify the retail Example: 1
CASHIER_ID	Optional	Character	: 1	10		Cashier performing the transaction. Example: 56
SERVER_ID	Optional	Numeric	1	10		Server performing the transaction. NOTE: FD R Engage allows maximum digits. Example: 560
SHIFT_ID	Optional	Character	: 1	1		Shift at the store. Exampl
TABLE_NUM	Optional	Numeric	1	5		Table number. Collected f receipts. Example: 10
BUSINESSDATE	Optional	Numeric	8	8		YYYYMMDD format Example: 20161129
PURCHASE_ID	Conditional	l Character	· 1	25		Required for Level II processing. P.O. Number Customer Code. NOTE: A special characters are supplin PURCHASE_ID. Exan 1
USER_DEFINED1	Optional	Character	: 1	35		User defined field. This is applicable to Worldpay O

Field	Rule	Type	Minimum	Maximum	value(s)	Description
USER_DEFINED2	Optional	Character	1	35		User defined field. This is applicable to Worldpay O NOTE: Will be truncated
USER_DEFINED3	Optional	Character	:1	35		User defined field. This is applicable to Worldpay O NOTE: Will be truncated
POS_IP	Optional	Character	•			For Consumer Unsolicited Responses to POS. POS I listening address. Exampl 192.168.31.100
POS_PORT	Optional	Numeric	4	4		For Consumer Unsolicited Responses to POS. POS listening port. Example: 5
TRAINING_MODE	Optional	List			Valid values: • OFF • ON	Include this field to turn of Training Mode for the sest Transactions are routed to Test for host simulation at results are mocked for approvals. NOTE: Refer to TestHost.XML Used for specifics. This is not supper by Worldpay SCA 4.0. We DEMO parameter is 1 (enabled), transactions with performed in Training Mowithout the need to pass < TRAINING_MODE > ON < TRAINING_MODE > from
NOTIFY_SCA_EVENT	ΓS Optional	Binary			Valid Values: • TRUE • FALSE	If TRUE, return event broadcasts as play by play what is occurring on the d when interacting with con and host as Unsolicited Consumer Selection responsible. POS_IP and POS_PORT must be sent. Broadcast events should be as information only and not condition for stopping or resuming a transaction. The exception would be in case where consumer interactions are consumer interactions.

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
POS_RECON	Optional	Character	1	30		POS reconciliation. POS Reconciliation field to be echoed back in response to POS. Example: RetailPO
COUNTER	Required	Numeric	1	10		COUNTER is used for a g MAC label. Each COUNT should be higher than the one. This is used to auther the POS. Example: 100
MAC	Required	Base64 Encoded Data				Message Authentication C This is used to authenticat POS.
MAC_LABEL	Required	Character	1	50		Associated label that tells device which MAC_KEY to decrypt the value of MAThis is used to authenticat POS. Example: REG1

Example

Following is an example of request packet

<TRANSACTION>

<FUNCTION_TYPE>SESSION</FUNCTION_TYPE>

<COMMAND>START</COMMAND>

<COUNTER>1</COUNTER>

<MAC> ... </MAC>

<MAC_LABEL>REG2</MAC_LABEL>

<LANE>3</LANE>

<STORE_NUM>203</STORE_NUM>

<INVOICE>TA1234</INVOICE>

<SWIPE_AHEAD>1</SWIPE_AHEAD>

</TRANSACTION>

Response Packet

Field	Type	Value	Description		
RESPONSE_TEXT	Character		Processor response text. Example: Session started / SESSION started		
RESULT	Character OK		This indicates the Result details.		
RESULT_CODE	Numeric	Expected result code: -1, 59003	This indicates the result code. Refer to Result/Error Codes for details.		

Field	Type	Value	Description	
TERMINATION_STATU	S 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 (<u>Application Parameters</u>) is enabled.

Field	Type Value	e 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	E 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: <pre>HOST_TIME>1.389</pre> 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

```
<RESPONSE>
<RESPONSE_TEXT>SESSION started</RESPONSE_TEXT>
<RESULT>OK</RESULT>
<RESULT_CODE>-1</RESULT_CODE>
<TERMINATION_STATUS>SUCCESS</TERMINATION_STATUS>
<COUNTER>2</COUNTER>
</RESPONSE>
```

TestHost.XML Used in TRAINING_MODE

TRAINING_MODE can be included either in the START session request (where it would be ON or OFF for the whole session) or in a transaction request. TRAINING_MODE will be echoed in response.

Note

Training mode will return EMV fields in response if applicable.

TestHost XML

Note

As of this publication, all transaction amount values are receiving approvals from test host. This section is for information purposes only and is subject to change.

Operation ID	Command	Transaction Amount	FIELD SET (Expected Response)
1	CAPTURE (Sale)	1.01	1
1	CAPTURE (Sale)	Other	1
4	AUTH	20.00	2
4	AUTH	Other	2
5	CLOSE_TAB NOTE: Use with OPEN_TAB amount 1.01	1.01	Refer to CLOSE_TAB Response.
5	CLOSE_TAB	Other	
7	SETTLE	Any	3
16	CREDIT	Any	2
45	VOID	Any	2
106	ADD_VALUE	Any	2
107	ACTIVATE	Any	2

Field set 1

Field Value

AUTH_CODE TAS684 INTRN_SEQ_NUM 50407

RESPONSE_TEXT APPROVAL TAS684

RESULT CAPTURED

RESULT_CODE 4

TERMINATION_STATUS SUCCESS

TRANS_DATE YYYY.MM.DD TRANS_TIME HH:MM:SS

TROUTD 50409

APPROVED_AMOUNT Equals transaction amount

AVAILABLE_BALANCE 0.00 TRAINING_MODE ON

Field set 2

Field Value
AUTH_CODE TAS316
INTRN_SEQ_NUM 50408
TRANS_SEQ_NUM 7

RESULT CAPTURED

RESULT_CODE 4

TERMINATION_STATUS SUCCESS

TRANS_DATE YYYY.MM.DD

TRANS_TIME HH:MM:SS

TROUTD 50408 APPROVED_AMOUNT varies

AVAILABLE_BALANCE If applicable

TRAINING_MODE ON

Field set 3

Field Value

RESPONSE_TEXT Settlement Scheduled

TERMINATION STATUS SUCCESS

Example Request (TRAINING MODE = ON in START session request)

```
<TRANSACTION>
<FUNCTION_TYPE>PAYMENT</FUNCTION_TYPE>
<COMMAND>CAPTURE</COMMAND>
<PAYMENT_TYPE />
<TRANS_AMOUNT>1.01</TRANS_AMOUNT>
<MAC_LABEL>P_7RZOMW</MAC_LABEL>
<COUNTER>2</COUNTER>
<MAC> ... </MAC>
</TRANSACTION>
```

Example Response

```
<RESPONSE>
<RESPONSE_TEXT>APPROVAL TAS684</RESPONSE_TEXT>
<RESULT>CAPTURED</RESULT>
<RESULT CODE>4</RESULT CODE>
<TERMINATION STATUS>SUCCESS</TERMINATION STATUS>
<TROUTD>50409</TROUTD>
<CTROUTD>1</CTROUTD>
<INTRN SEQ NUM>50407</INTRN SEQ NUM>
<TRANS_DATE>2016.11.22</TRANS_DATE>
<TRANS_TIME>13:50:25</TRANS_TIME>
<PAYMENT_TYPE>CREDIT</PAYMENT_TYPE>
<PAYMENT_MEDIA>MASTERCARD</PAYMENT_MEDIA>
<acct NUM>545454*****5454</acct NUM>
<AUTH_CODE>TAS684</AUTH_CODE>
<approved amount>1.01</approved amount>
<available_balance>0.00</available_balance>
<CARDHOLDER>FDCS TEST CARD MASTERCARD</CARDHOLDER>
<CARD EXP MONTH>04</CARD EXP MONTH>
<CARD EXP YEAR>20</CARD EXP YEAR>
<TRAINING MODE>ON</TRAINING MODE>
<COUNTER>2</COUNTER>
</RESPONSE>
```

Example CLOSE_TAB Response

```
<RESPONSE>
<RESPONSE_TEXT>Transaction Approved</RESPONSE_TEXT>
<RESULT>APPROVED</RESULT>
<RESULT_CODE>5</RESULT_CODE>
<TERMINATION_STATUS>SUCCESS</TERMINATION_STATUS>
<TRANS_DATE>2016.11.22</TRANS_DATE>
<TRANS_TIME>13:56:39</TRANS_TIME>
<CTROUTD>1</CTROUTD>
<PAYMENT_TYPE>CREDIT</PAYMENT_TYPE>
<APPROVED_AMOUNT>1.01</APPROVED_AMOUNT>
<TRAINING_MODE>ON</TRAINING_MODE>
</RESPONSE>
```