



https://verifone.cloud/docs/sca-functional-specification/protocol_spec/secondary_port/get_saf_status

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GET SAF STATUS

This command is used to obtain the status if the terminal has any SAF transactions, through a secondary port command.

Prerequisites: The terminal should be fully initialized on Idle screen.

Device UI Required: No

Request Packet

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
FUNCTION_TYPE	Required	Static value	N/A	N/A	SECONDARYPORT	Type of function.
COMMAND	Required	Static value	N/A	N/A	GET_SAF_STATUS	Command name
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. Example: 100
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. Example: REG1

Example

Following is an example of request packet

```
<TRANSACTION>  
<FUNCTION_TYPE>SECONDARYPORT</FUNCTION_TYPE>  
<COMMAND>GET_SAF_STATUS</COMMAND>  
</TRANSACTION>
```

Response Packet

Field	Type	Value	Description
RESPONSE_TEXT	Character		Processor response text. Example: SUCCESS
RESULT	Character		This indicates the Result details. Example: OK
RESULT_CODE	Numeric	Expected result code: - 1	This indicates the result code. Refer to Result/Error Codes for details.
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.
TOTAL_AMOUNT	Floating point number	500.00	Total amount of transactions in the SAF Table. This is a mandatory field. This is a total of Eligible, Processed, Deferred, Pre-Auth and Declined transactions.
COMPLETED_AMOUNT	Floating point number	100.00	This field is present if there are Declined, Processed Transactions in the database. This is a conditional field.
TOTAL_SAF_COUNT	Numeric	50	Total number of records present in the SAF Table. This is a mandatory field.
ELIGIBLE_COUNT	Numeric	20	This is a conditional field and present only if there are any Eligible transactions in the database.
DECLINED_COUNT	Numeric	10	This is a conditional field and present only if there are any Declined transactions in the database.
DEFERRED_COUNT	Numeric	5	This is a conditional field and present only if there are any Deferred transactions in the database.
IN_PROCESS_COUNT	Numeric	1	Number of transaction which are In-Process. This is a conditional field and present only if there are any In-Process transactions in the database.
PREAUTH_COUNT	Numeric	15	This is a conditional field and present only if there are any Pre-Auth transactions in the database.
PROCESSED_COUNT	Numeric		Number of transactions which are already processed.
NOT_PROCESSED_COUNT	Numeric		Number of transactions those are not processed.

Field	Type	Value	Description
MACLABEL_IN_SESSION	Character		Applicable when session is in progress. Example: P_GBO
SESSION_DURATION	Numeric		Applicable when session is in progress. Example: HH:MM:SS
INVOICE_SESSION	Numeric		Invoice number supplied by the POS Start Session for the session that is in progress. Only applicable when session is in progress. Example: 98985
DEVICENAME	Character		Device name. Example: LANE1
SERIALNUMBER	Numeric		Serial number of the device. Example: 987-654-321
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>
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>
<RESPONSE_TEXT>SUCCESS</RESPONSE_TEXT>
<RESULT>OK</RESULT>
<RESULT_CODE>-1</RESULT_CODE>
<TERMINATION_STATUS>SUCCESS</TERMINATION_STATUS>
<TOTAL_AMOUNT>50.00</TOTAL_AMOUNT>
<COMPLETED_AMOUNT>15.00</COMPLETED_AMOUNT>
<TOTAL_SAF_COUNT>32</TOTAL_SAF_COUNT>
<ELIGIBLE_COUNT>7</ELIGIBLE_COUNT>
<IN_PROCESS_COUNT>0</IN_PROCESS_COUNT>
<DECLINED_COUNT>2</DECLINED_COUNT>
<DEFERRED_COUNT>3</DEFERRED_COUNT>
<PREAUTH_COUNT>15</PREAUTH_COUNT>
<PROCESSED_COUNT>5</PROCESSED_COUNT>
</RESPONSE>
```