Token Query

This command directs the device to retrieve card token information for a given card for the purpose of customer identification, purchase history or to validate a return.

Rules

START command must be sent to open the session for Token Query.

Configuration Parameter

Following are the configuration parameters which affect the operation. Refer to Application Parameters table for more details on the below parameters.

- PROMPTCVVFORTOKENQUERY
- SKIPAMOUNT

TOKEN_QUERY (Message Interface)

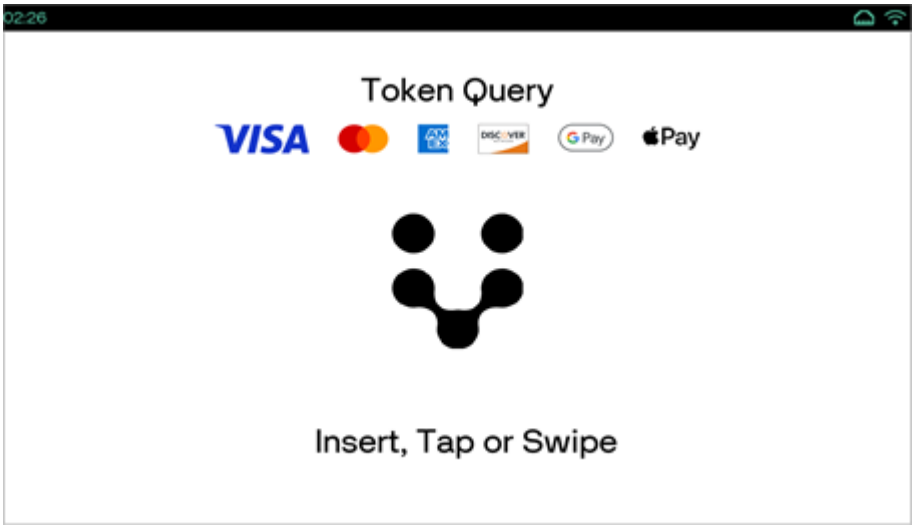
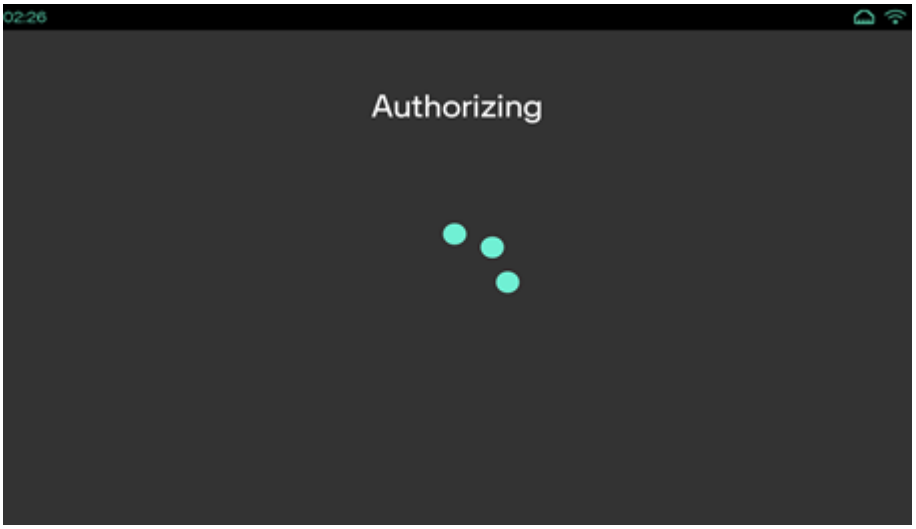
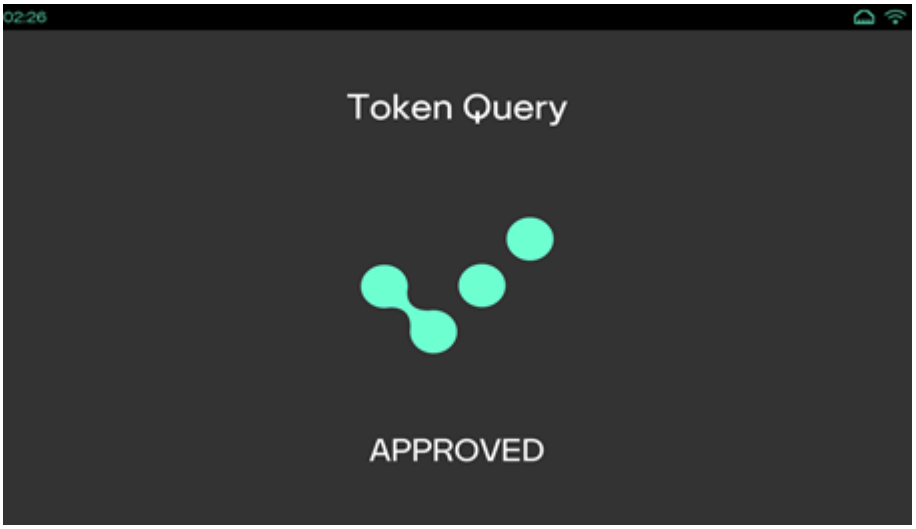
The following tables provide corresponding device UI interactions, detailed protocol information, including field descriptions and examples.

Device UI Required

Note

Neo device (M450) is being used to capture screenshots for the Device UI Requirement section.

Display	User Action	Terminal Action

	Use the card for token query.	The device displays card entry screen.
	No action	The device displays the card authorizing screen.
	No action	The device displays query status screen.

Request Packet

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
FUNCTION_TYPE	Required	Static value	N/A	N/A	PAYMENT	Type of function.

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
COMMAND	Required	Static value	N/A	N/A	TOKEN_QUERY	Command name
PAYMENT_TYPE	Required	List	N/A	N/A	• CREDIT • EBT • GIFT	Payment type field for EBT. **NOTE:** PAYMENT_TYPE field is mandatory fo card token based transactions.
MANUAL_ENTRY	Optional	Boolean	N/A	N/A	• TRUE • FALSE	This is to instruct SCA to collect the account information through the keypad on the device. If the value is set to FALS then the device will prompt for card swipe/insert/tap.
ACCT_NUM	Optional	Numeric	1	25		This field is to enter the account number manually. For this MANUAL_ENTRY must be set to TRUE **Example:** 67823456781313
CARD_EXP_MONTH	Optional	Numeric	2	2		Card expiry month. **Example:** 12
CARD_EXP_YEAR	Optional	Numeric	2	2		Card expiry year. **Example:** 49
MANUAL_PROMPT_OPTIONS	Optional	Character	1	50	Valid value: ZIP	This field is applicable when MANUAL_ENTRY = TRUE and the payment type is Credit. When this is present, SCA will prompt for customer zip code. The zip code that is entered will be returned in th CUSTOMER_ZIP field in the response.

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
TOKEN_TYPE	Optional	Character			LVT (Low Value Token)	Token type. A limite used token called Low Value Token (LVT) is introduced. This is a transactiona token that has 24-hour duration for expiration. This LVT can be used the same manner as the curren High Value Token/Omni-Token (HVT) is used. If thi field is not sent, then HVT will be used by default. If TOKENIZE is set to '0' and the POS send a command request with TOKEN_TYPE=LV then the terminal wil request an LVT token. This field is applicable for Worldpay Direct only. Refer to Application Parameters table for more details on TOKENIZE parameter.
TKN_RENEW	Conditional	Character		1	Valid value: 1	Application will sen this field to the Gateway, requesting for Token renewal. As of this publicatio this is applicable for UGP only.

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
COL_3, COL_4, COL_5, COL_6, COL_7, COL_8, COL_9, COL_10	Optional	Character	1	255		These fields represer Column 3 to Colum 10. These fields are expected for the Merchants internal POS System, which will record any additional data and link those to the PW CLIENT_ID and CTROUTD. When a value for COL_n is passed in, that same value will be returne in the response. Thes COL_n values are no indexed, or searchable in any command report. These fields are not sent to any payment processor. **Example** Merchant defined data
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 b 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

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
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

Multi Merchant Transaction

Refer to Multi Merchant Support for more details on this feature.

Note

For Multi Merchant transactions, either of the field is mandatory to send in POS request.

Field	Rule	Type	Minimum	Maximum	Value(s)	Description
MMACCOUNT	Conditional	Character	1	20		This field contains the Multi Merchant Account number or account name, which is used by the application to identify the correct Client ID and Device Key to be used for performing Host operations like Transactions and Reports. This field is mandatory if the device has a Multi Merchant setup on-boarding and if DEFAULTMERCHANTACCOUNT parameter is not set. **Example:** 123456789/ 121212/ zxcvbnmQWERTY1
MMPIN	Conditional	Character	6	6		This field contains PIN value which will be used for MMACCOUNT authentication. MMPIN update and setup is handled on PWC portal. The default value is usually the same as MMACCOUNT. **Example:** 001212/ 123456

Example

Following is an example of request packet

```
<TRANSACTION>
        <FUNCTION_TYPE>PAYMENT</FUNCTION_TYPE>
        <COMMAND>TOKEN_QUERY</COMMAND>
        <PAYMENT_TYPE>CREDIT</PAYMENT_TYPE>
        <ENCRYPT>TRUE</ENCRYPT>
        <COUNTER>1</COUNTER>
        <MAC> … </MAC>
        <MAC_LABEL>REG2</MAC_LABEL>
</TRANSACTION>
```

Response Packet

Field	Type	Value	Description
RESPONSE_TEXT	Character		Processor response text. **Example:** SUCCESS or APPROVAL (Engage)
RESULT	Character		This indicates the Result details. **Example:** OK or APPROVED (Engage)
RESULT_CODE	Numeric	Expected result code: -1, 5 (Engage), 59006, 59001, 59007 and 59040	This indicates the result code.
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.
TRANS_SEQ_NUM	Numeric		Processor/Batch trans sequence number. **Example:** 5
INTRN_SEQ_NUM	Numeric		PWC transaction ID. **Example:** 123456789
MERCHID	Numeric		Merchant ID. **Example:** 900000000123
TERMID	Numeric		Terminal ID. **Example:** 001
COUNTER	Numeric		Echoes counter sent in the request. **Example:** 100
TROUTD	Numeric		Transaction routing ID. **Example:** 157
CTROUTD	Numeric		Client-specific Transaction routing ID. **Example:** 28
CARD_TOKEN	Character		Proxy set of numbers representing a unique card. **Example:** 7987654321098765
ACCT_NUM	Numeric		Returned the masked account number. **Example:** 600649******9147
CARDHOLDER	Character		This field will return the Cardholder name. **Example:** JOHN DOE

Field	Type	Value	Description
CARD_EXP_MONTH	Numeric		This field will return the Card expiration month. **Example:** 06
CARD_EXP_YEAR	Numeric		Card expiration year. **Example:** 17
CUSTOMER_ZIP	Numeric		Returns when zip code is captured with MANUAL_PROMPT_OPTIONS in request. **Example:** 02134
TOKEN_TYPE	Character		Returns low value token type, if sent as the query request field. This field is applicable for Worldpay Direct only.
TKN_EXPDATE			Token expiration date. May be sent on Payment Transaction or Token Query transaction to override default expiration date assigned to the Token. **Example:** 07022021
TKN_MATCHING			Matching Token. This is a non-reversible token used for matching purposes. For example, loyalty tracking. **Example:** 3278483765646148999
TKN_USED		• 0 - Token not used • 1 - Token used	Whether the Token is used.
BANK_USERDATA	Character		Bank User Data, normally returned with CARD_TOKEN. Maximum 50 alphanumeric. **Example:** /CustData`JANE`K`DOE````00`
CARD_ENTRY_MODE	Character		Returns card entry mode values. **Example:** Swiped
TRAN_LANG_CODE	Character	• en – English • fr – French • es – Spanish	This field contains the language code for the current transaction which is finalized based on the configured language on terminal and language preference from the card. This field will be returned only whenever the Card data is captured from cardholder during transaction flow. If Language code is not available from card, then terminal language will be returned. This field needs to be added for the below transaction flows.
AUTH_REF_NUMBER	Character	Example: 123456789012345 Or It can be empty	This tag returns in the host response with the value for the particular transaction. This is used by some merchants to refer to the transaction at the host side. Currently this is applicable only for Worldpay processor.

Field	Type	Value	Description
AVAILABLE_BALANCE	Floating point number	Ex: 1.00	Available balance on the card used for transaction. This field will be returned to POS, when the Host returns the Available Balance data. SCA application sends <BALANCE_ENQ> as Host request field and based on the processor, it returns the Available Balance, and SCA will send it back to POS.
COL_3, COL_4, COL_5, COL_6, COL_7, COL_8, COL_9, COL_10	Character		Column 3 to Column 10 fields value will be echoed in POS response. These fields are not sent to any payment processor.
POS_RECON	Character		POS reconciliation field echoed back if sent in request. **Example:** RetailPOS1

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>
	<TERMINATION_STATUS>SUCCESS</TERMINATION_STATUS>
	<COUNTER>1</COUNTER>
	<RESULT_CODE>-1</RESULT_CODE>
	<RESULT>OK</RESULT>
	<RESPONSE_TEXT>SUCCESS</RESPONSE_TEXT>
	<CTROUTD>28</CTROUTD>
	<TROUTD>157</TROUTD>
	<CARD_TOKEN>7987654321098765</CARD_TOKEN>
	<ACCT_NUM>454545******4545</ACCT_NUM>
	<CARDHOLDER>JOHN DOE</CARDHOLDER>
	<CARD_EXP_MONTH>04</CARD_EXP_MONTH>
	<CARD_EXP_YEAR>17</CARD_EXP_YEAR>
	<TRAN_LANG_CODE>en</TRAN_LANG_CODE>
</RESPONSE>