CG Gateway
Inquire Transactions

XML API

Version 3.2.13.200

27/03/2019

Table of Contents

Preface

General

This document describes the XML API for CG Gateway 'inquireTransactions' system query commands and presents the corresponding XML structure.

The general usage for this API is to query the terminal regarding specific transactions distinguished by the "user" XML tag or transaction unique identifier "tranId".

The API response includes all relevant transactions matched by the search criteria

General Ashrait Request & Response

Request

Below is the XML structure of the request. The mandatory general opening tags are ashrait and request.

For more details please refer to CreditGuard's main API document – "XML API"

Request Syntax:

```
<ashrait>
     <request>
           <command/>
           <requestId/>
           <dateTime/>
           <version/>
           <language/>
           <mayBeDuplicate/>
           <(command name)>
                 ...
           </(command name)>
     </request>
</ashrait>
```

Response

Below is the XML structure of the response. The mandatory general opening tags are ashrait and response.

For more details please refer to CreditGuard's main API document – "XML API"

Response syntax:

```
<ashrait>
     <response>
           <command/>
           <dateTime/>
           <requestId/>
           <tranId/>
           <result/>
           <message/>
           <userMessage/>
           <additionalInfo/>
           <version/>
           <language/>
           <(command name)>
                 ...
           </(command name)>
     </response>
</ashrait>
```

The Inquire Transactions Generic Structure

General

The 'inquireTransactions' command lists all transactions and their corresponding details, along with a summary section listing the amount of matched entries.

For advanced usage a paging option is also available, please refer to CreditGuard for documentation if relevant.

The following is a generic request and response for an 'inquireTransaction' API call:

Request:

```
<ashrait>
      <request>
            <requestId></requestId>
            <version>2000</version>
            <language>HEB</language>
            <dateTime></dateTime>
            <command>inquireTransactions</command>
            <inquireTransactions>
                  <user>userfield</user>

      <terminalNumber>XXXXXXX</terminalNumber>
            </inquireTransactions>
      </request>
</ashrait>
```

Response:

```
<ashrait>
      <response>
            <command>inquireTransactions</command>
            <dateTime>2012-07-22 16:18</dateTime>
            <requestId>723232323</requestId>
            <tranId>677461</tranId>
            <result>000</result>
            <message>עיסקה תקינה </message>
            <userMessage>עיסקה תקינה </userMessage>
            <additionalInfo></additionalInfo>
            <version>1000</version>
            <language>Heb</language>
            <inquireTransactions>
            <transactions>
                  <transaction>
                        <transaction details .....>
                  </transaction>
                  <transaction>
                        <transaction details .....>
                  </transaction>
                  .....
            </transactions>
```

```
            <totals>
                  <total>XXX</total>
                  <totalMatch>XXX</totalMatch>
            </totals>
            </inquireTransactions>
      </response>
</ashrait>
```

Field Types

The following table describes the field type definitions used later on in the document to express each XML request / response field types.

Field Type	Definition
Alphanumeric	A field containing any combination of English letters, digits, space, underscore or hyphen. The letters can be capitalized. The field can be left empty if it is not mandatory.
Numeric	A field containing only digits without space or any other character. The field can be left empty if it is not mandatory.
Enum	A Field containing a preset list of values. The response XML field will usually contain both an alphanumeric value along with a "code" attribute containing a numeric value. The request XML should only contain the enum alphanumeric value (without sending the "code" attribute). **Note**: "enum" fields may contain an empty value or an empty "code" attribute value.

Request Tag Details

XML Field	Field Type	Description	Example
command (M)		Alphanumeric	Value: inquireTransactions.
inquireTransactions (M)		The surrounding tag for all the tags that include this command data.	
tranId	Numeric(1-20)	search criteria for matching CG unique transaction id	2546654
cgUid	Numeric(1-20)	Search criteria for all transactions matching the related identifier. All API requests relating the same financial transaction will share the same cgUid value.	2541154
user	Alphanumeric (1-19) **Note**: This tag may contain "Hebrew" characters.	search criteria for matching user value It is recommended to enter a unique identifier for each transaction in the user field (usually a unique identifier used on the merchant's system. This will assure a single match when sending an 'inquireTransactions' request.	user
terminalNumber		Numeric (10(	search criteria for matching terminal number

cardNo	Numeric (8-19)	search criteria for matching credit card number	4580458045804580
cardId	Numeric (16) or Numeric (36)	search criteria for matching credit card number	1051555585854580
cardExpiration	Numeric (4(	search criteria for matching card expiration	1216
currency	Enum (please find relevant reference in the XML API document)	search criteria for matching with same field value	ILS
cardBrand	Enum	search criteria for matching with same field value. Enum with the following values: **Value** / **code** PrivateLabel / 0 Mastercard / 1 Visa / 2 Maestro / 3 Amex / 4 Isracard / 5 JCB / 6 Discover / 7 Diners / 8	cardBrand
authNumber	AlphaNumeric(3-7)	search criteria for matching with same field value	12345
ashraitResult	Numeric(3-5)	search criteria for matching with same field value	ashraitResult
shvaReferanceNo	Numeric(7-8)	search criteria for matching with same field value	5568985

total	Numeric(1-20)	search criteria for matching with same total amount in cents / Agorot	2500
transmitId	Numeric(1-20)	search criteria for matching with same field value	
financialStatus	Enum	Enum with the following values: **Value** AUTHORIZED REJECTED CAPTURED TRANSMITTED PENDING CANCELLED search criteria for matching with same field value **Note**: "PENDING" applies for J9. "CANCELLED" applies for J5 that has been cancelled.	AUTHORIZED
Shovar	Numeric(6-8)	search criteria for matching with same field value	046826

<table>
<tr><td>creditCompany</td><td>Enum</td><td>search criteria for matching with same field value

Contains the following values:

<table><tr><th>Value</th></tr><tr><td>ISRACARD</td></tr><tr><td>VISA</td></tr><tr><td>DINERS</td></tr><tr><td>AMEX</td></tr><tr><td>JCB</td></tr><tr><td>ALPHACARD</td></tr></table>Additional values for Ashrait EMV:

<table><tr><th>Value</th><th>code</th></tr><tr><td>MULTIPASS</td><td>11</td></tr></table></td><td></td></tr>
<tr><td>fromDealDate</td><td>YYYY-MM-DD</td><td>search criteria of type - range - for matching transactions by deal date</td><td>2015-01-21</td></tr>
<tr><td>toDealDate</td><td>YYYY-MM-DD</td><td>search criteria of type - range - for matching transactions by deal date</td><td>2015-01-21</td></tr>
<tr><td>fromTransmitDate</td><td>YYYY-MM-DD</td><td>search criteria of type - range - for matching transactions by transmit date</td><td>2015-01-21</td></tr>
<tr><td>toTransmitDate</td><td>YYYY-MM-DD</td><td>search criteria of type - range - for matching transactions by transmit date</td><td>2015-01-21</td></tr>
<tr><td>fromShiftTxnDate</td><td>YYYY-MM-DD</td><td>search criteria of type - range - for matching transactions by shiftTxnDate field</td><td>2015-01-21</td></tr>
<tr><td>toShiftTxnDate</td><td>YYYY-MM-DD</td><td>search criteria of type - range - for matching</td><td>2015-01-21</td></tr>
</table>

		transactions by shiftTxnDate field	

Response Tag Details

XML Field	Field Type	Description	Example
inquireTransactions (M)		The surrounding tag for all the tags that include this command data.	
transactions (M)		The surrounding tag for all transactions found by the search criteria	
transaction (M)		The surrounding tag that populates specific transaction tags/details	
totals (M)		The surrounding tag for summary tags	
total (M)	Numeric(1-5)	Indicates the number of transactions populated in the current response	3
totalMatch (M)	Numeric(1-5)	Indicates the number of transactions found by the search criteria	50
pageNumber	Numeric(1-5)	Only when using paging. The number of the current page.	
pagesAmount	Numeric(1-5)	Only when using paging. The total number of pages needed to iterate in order to receive all transactions	

queryResultId	Numeric(1-50)	Only when using the paging option. The Returned 'queryResultId' from the first response is used for subsequent requests in order to browse specific page results	8104971270

Notable Response fields populated in the "transaction" tag

XML Field	Field Type	Description	Example
creditCompany	Enum	Possible values: **Value** / **code** Foreign / 0 Isracard / 1 Visa / 2 Diners / 3 Amex / 4 Jcb / 5 Alphacard / 6 Additional values for Ashrait EMV: **Value** / **code** MultiPass / 11	ISRACARD

<table>
<tr>
<td>cardAcquirer</td>
<td>Enum</td>
<td>Possible values for Ashrait EMV:

<table><tr><th>Value</th><th>code</th></tr><tr><td>Isracard</td><td>1</td></tr><tr><td>Visa</td><td>2</td></tr><tr><td>Alphacard</td><td>6</td></tr><tr><td>MultiPass</td><td>11</td></tr></table>
Possible values for Ashrait 96

<table><tr><th>Value</th><th>code</th></tr><tr><td>Isracard</td><td>1</td></tr><tr><td>Visa</td><td>2</td></tr><tr><td>Diners</td><td>3</td></tr><tr><td>Amex</td><td>4</td></tr><tr><td>Alphacard</td><td>6</td></tr></table></td>
<td>ISRACARD</td>
</tr>
<tr>
<td>financialStatus</td>
<td>Enum</td>
<td>Indicates the financial status of the transaction

Enum with the following values:

<table><tr><th>Value</th></tr><tr><td>Authorized</td></tr><tr><td>Rejected</td></tr><tr><td>Captured</td></tr><tr><td>Transmitted</td></tr><tr><td>Pending</td></tr><tr><td>Cancelled</td></tr><tr><td>Transferred</td></tr><tr><td>Error</td></tr><tr><td>Other</td></tr></table>
Note: "Pending" applies for J9.

"Cancelled" applies for J5 that has been cancelled.
"Other" applies for: J2 / J102 / J106 / J107 / J108 / J109 / J111.</td>
<td>AUTHORIZED</td>
</tr>
</table>

<table>
<tr><td>shovar</td><td>Numeric (6-8)</td><td>Shovar number</td><td>01001001</td></tr>
<tr><td>shvaReferanceNo</td><td>Numeric (7-8)</td><td>Reference Number (a unique number for a batch of transmitted transactions)</td><td>5574444</td></tr>
<tr><td>status</td><td>Numeric (3-5)</td><td>CG Gateway return code for a specific transaction</td><td>000</td></tr>
<tr><td>total</td><td>Numeric

(1-20)</td><td>Amount in cents / Agorot</td><td>255</td></tr>
<tr><td>tranId</td><td>Numeric(1-20)</td><td>Unique identifier for a transaction on CG Gateway</td><td>254151</td></tr>
<tr><td>transactionDate</td><td>YYYY-MM-DD hh:mm:ss</td><td>Transaction Date</td><td>2016-09-19 09:55:38</td></tr>
<tr><td>transactionType</td><td>Enum (please find relevant reference in the XML API document)</td><td>Possible values:

<table><tr><th>Value</th><th>code</th></tr><tr><td>Blocked</td><td>00</td></tr><tr><td>RegularDebit</td><td>01</td></tr><tr><td>ForcedDebit</td><td>03</td></tr><tr><td>Cancel</td><td>52</td></tr><tr><td>AuthCredit</td><td>53</td></tr></table>
Additional values, Ashrait EMV only:

<table><tr><th>Value</th><th>code</th></tr><tr><td>Cashback</td><td>06</td></tr><tr><td>Cash</td><td>07</td></tr><tr><td>RecurringDebit</td><td>11</td></tr><tr><td>BalanceEnquiry</td><td>30</td></tr><tr><td>Load</td><td>55</td></tr><tr><td>Reversal</td><td>58</td></tr><tr><td>Discharge</td><td>82</td></tr></table></td><td></td></tr>
<tr><td>terminalNumber</td><td>Numeric

(10)</td><td>Numeric (10)</td><td>0880700014</td></tr>
</table>

<table>
<tr><td>cardId</td><td>Numeric (16) or
Numeric (36)</td><td>Numeric (16)</td><td>1044318853344580</td></tr>
<tr><td>creditType</td><td>Enum</td><td>Possible values:
<table><tr><th>Value</th><th>code</th></tr><tr><td>RegularCredit</td><td>1</td></tr><tr><td>IsraCredit</td><td>2</td></tr><tr><td>AdHock</td><td>3</td></tr><tr><td>ClubDeal</td><td>4</td></tr><tr><td>SpecialAlpha</td><td>5</td></tr><tr><td>SpecialCredit</td><td>6</td></tr><tr><td>Payments</td><td>8</td></tr><tr><td>PaymentsClub</td><td>9</td></tr></table></td><td></td></tr>
<tr><td>cardType</td><td>Enum</td><td>Possible values ashrait 96:
<table><tr><th>Value</th><th>code</th></tr><tr><td>Local</td><td>0</td></tr><tr><td>Foreign</td><td>1</td></tr><tr><td>Debit</td><td>3</td></tr><tr><td>Fuel</td><td>2</td></tr><tr><td>Rechargeable</td><td>4</td></tr></table>
Possible values Ashrait EMV:
<table><tr><th>Value</th><th>code</th></tr><tr><td>Local</td><td>00</td></tr><tr><td>Debit</td><td>01</td></tr><tr><td>Fuel</td><td>03</td></tr><tr><td>Dualy</td><td>04</td></tr><tr><td>Rechargeable</td><td>06</td></tr><tr><td>Dalkan</td><td>08</td></tr><tr><td>Club</td><td>70</td></tr><tr><td>FuelClub</td><td>73</td></tr><tr><td>DualyClub</td><td>74</td></tr><tr><td>RechargeClub</td><td>76</td></tr><tr><td>Foreign</td><td>99</td></tr></table></td><td></td></tr>
</table>

<table>
<tr>
<td>transactionCode</td>
<td>Enum</td>
<td>Possible values:

<table>
<tr><th>Value</th><th>code</th></tr>
<tr><td>Regular</td><td>00</td></tr>
<tr><td>SelfService</td><td>01</td></tr>
<tr><td>FuelSelfService</td><td>02</td></tr>
<tr><td>ContactlessMagnetic</td><td>04</td></tr>
<tr><td>Phone</td><td>50</td></tr>
<tr><td>Signature</td><td>51</td></tr>
</table>

Additional values, Ashrait EMV only:

<table>
<tr><th>Value</th><th>code</th></tr>
<tr><td>CellphoneNum</td><td>10</td></tr>
<tr><td>EMVContact</td><td>40</td></tr>
<tr><td>Internet</td><td>52</td></tr>
<tr><td>Fallback</td><td>80</td></tr>
<tr><td>ContactlessEmv</td><td>85</td></tr>
<tr><td>ContactlessMobile</td><td>86</td></tr>
<tr><td>ContactlessMobileEMV</td><td>87</td></tr>
</table>
</td>
<td></td>
</tr>
</table>

Notes: For ddditional fields that are returned in the response (please find relevant reference in the XML API document. In the document the reference can be found either within the request specification or in the response specification)

From time to time CG Gateway's XML API might change, in a way that additional tags will be added to the protocol for supporting additional functionality. In such a scenario additional tags will be added to the response XML even for unchanged requests. It is the merchant responsibility to parse the returned XML in such a manner that additional tags will be ignored, and only relevant data will be extracted from the CG Gateway response XML.

Inquire Transactions API Examples

General

The examples below are all presented in "postman" scripts. You can download postman for free from: https://www.getpostman.com/apps.

Along with this API document you will receive a postman collection file containing all examples below along with an environment postman file for executing the examples in the collection.

After installing the app, import the collection file by pressing 'import', then going to the 'import folder' tab point to the folder that contains the collection file and the environment file.

Note:	The examples collection file and environment file are provided for both Ashrait 96 & Ashrait EMV protocols in separate files. Make sure you are running the examples with the files that fit your needs!

Inquire Transactions by "tranId" unique identifier

The following example describes a query for specific terminal and unique transaction identifier "tranId"

The tranId is CG Gateway's internal unique transaction identifier (allocated by CG Gateway for each transaction), and can be used in order to query a single transaction.

Thus, in the following postman example we will expect to receive one matching result in the response.

#	Request Name	API Command	Description
1	autoComm request	doDeal	Create a debit transaction on CG-Gateway in order to be queried in the following "inquireTransactions" API request.
2	inquireTransaction by tranId	InquireTransactions	Inquire Transactions by "tranId". The Response returns the debit transaction processed in request #1.
Supported Protocols:		☒ Ashrait 96 ☒ Ashrait EMV	

Postman Example 1: Inquire Transactions by "tranId" unique identifier

Inquire Transactions by "user" field

The following describes a query for specific terminal and specific "user" field value.

It is recommended to enter a unique identifier for each submitted transaction under the "user" field (usually a unique identifier used on the merchant's system. This will assure a single match when sending an 'inquireTransactions' request.

In the postman example below, two transactions (or more) match the search criteria, and they are all returned by the XML API call.

#	Request Name	API Command	Description
1	autoComm request	doDeal	Create a debit transaction on CG-Gateway in order to be queried in the following "inquireTransactions" API request.
2	autoComm request	doDeal	Repeat the same as request #1
3	inquireTransaction by tranId	InquireTransactions	Inquire Transactions by "user". The Response returns both transactions processed in requests #1,#2 (and

			maybe more transactions processed previously with the same "user" value).
Supported Protocols:	☒ Ashrait 96 ☒ Ashrait EMV		

Postman Example 2: Inquire Transactions by "user" field

Inquire Transactions by "cgUid" identifier

The following describes a query for specific terminal and CG-Gateway "cgUid" identifier.

The "cgUid" identifier is used on CG-Gateway in order to relate requests of the same "financial" transaction.

For example, when a 2 phase sale request is used by a merchant, the merchant will typically send 2 requests to clear a transaction:

1. A doDeal request with "verify" validation.
2. A doDeal request with "autoComm" validation.

Thus, both requests will share the same "cgUid" identifier.

Another example would be a debit transaction that later on is refunded – both the debit and refund request will share the same "cgUid" identifier.

Thus, when sending a "inquireTransctions" request with the "cgUid" criteria, all transactions related with the same "cgUid" identifier are returned by in the response.

In the postman example below, two transactions match the search criteria (the cgUid value matches a debit transaction and a refund transaction as explained in the above) and thus they are both returned by the XML API call.

#	Request Name	API Command	Description
1	autoComm request	doDeal	Create a debit transaction on CG-Gateway in order to be queried in the following "inquireTransactions" API request.
2	transmit request	transmitTerminal	Transmit the debit transaction processed in request #1
3	refund request	refundDeal	Refund the debit transaction processed in request #1.

4	inquireTransaction by cgUid	InquireTransactions	Inquire Transactions by cgUid. The response returns both the debit and refund transactions processed in request #1 and #3.
Supported Protocols:		☒ Ashrait 96 ☒ Ashrait EMV	

Postman Example 3: Inquire Transactions by "cgUid" identifier

Inquire Transactions by "financialStatus" identifier

The following describes a query for specific terminal and CG-Gateway "financialStatus" identifier.

The "financialStatus" represents the status in CG Gateway of said transaction, for additional details refer to the request tags details section for further details.

#	Request Name	API Command	Description
1	autoComm request	doDeal	Create a debit transaction on CG-Gateway in order to be queried in the following "inquireTransactions" API request.
2	inquireTransaction by financialStatus	InquireTransactions	Inquire Transactions by financialStatus. The response contains all of the transactions with the matching searching criteria (same terminal and with the provided financial status).
Supported Protocols:		☒ Ashrait 96 ☒ Ashrait EMV	

Inquire Transactions by Date Range

It is possible to query many transactions within a date range for a specific terminal number.

The API request will include the search criteria fields:

- Terminal number - The specific terminal number to query.
- From Deal Date - The search criteria start date
- To Deal Date - The search criteria end date

The API response includes all relevant transactions matched by the request search criteria and their corresponding details. In addition the response will contain a summary section listing the total number of matched transactions.

For advanced usage a paging option is also available. In order to use the paging option the API request will include the following field as shown in the example below.

- Result Type – set to "Paging" in order to use the paging option.

#	Request Name	API Command	Description
1	autoComm request	doDeal	Create a debit transaction on CG-Gateway in order to be queried in the following "inquireTransactions" API request.
2	inquireTransaction by date range	InquireTransactions	Inquire Transactions by date range. The response contains all of the transactions with the matching searching criteria (same terminal and with the transaction is within the range provided).
Supported Protocols:		☒ Ashrait 96 ☒ Ashrait EMV	

Inquire Transactions with Paging Settings

Since the result could contain a large amount of data, paging can be used.

- Use resultType = Paging in the request
- In the response queryResultId tag will be received. The value of the tag will be used for browsing.
- To browse send subsequent requests with the value received in queryResultId on the first response along with the pageNumber tag containing the desired page number for browsing.

#	Request Name	API Command	Description
1	autoComm request	doDeal	Create a debit transaction on CG-Gateway in order to be queried in the following "inquireTransactions" API request.
2	inquireTransaction with paging - initial	InquireTransactions	The initial request for inquire transaction with paging, since this is the initial request, no page number is required, use the returned queryResultId for the subsequent requests.
3	inquireTransaction with paging – page 1	InquireTransactions	Now that there's queryResultId it is possible to send subsequent requests with said id and the required page number (as long as it is within the range of 1 and the pageNumber that was returned in the initial request.
Supported Protocols:		☒ Ashrait 96 ☒ Ashrait EMV	

Inquire Transactions by ShiftTxnDate

Another functionality is to query the API to receive transactions within a specific "shift transaction date" range (based on the "shiftTxnDate" value sent in the transactions).
The API request will include the search criteria fields:

- Terminal number - The specific terminal number to query.
- From Shift Txn Date - The search criteria start date
- To Shift Txn Date - The search criteria end date

The API response includes all relevant transactions matched by the request search criteria and their corresponding details. In addition the response will contain a summary section listing the total number of matched transactions.

#	Request Name	API Command	Description
1	autoComm request	doDeal	Create a debit transaction on CG-Gateway in order to be queried in the following "inquireTransactions" API request.
2	inquireTransaction with shift date range	InquireTransactions	Inquire Transactions by shift date range. The response contains all of the transactions with the matching searching criteria (same terminal and with the transaction is within the range provided).
Supported Protocols:		☒ Ashrait 96 ☒ Ashrait EMV	