

CG Gateway

Invoice Integration

XML API

Version: 1.6

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| Version | Writer | Date | |
|---------|------------------|------------|--|
| 1.0 | Itamar Lask | 11/01/2011 | External API Documentation |
| 1.1 | Shani Klajman | 04/06/2012 | Added invoiceType. |
| 1.2 | Miriam Rosenthal | 25/12/2013 | Improved documentation on summing - multiple items, discounts and tax rates. |
| 1.3 | Goldy Zitron | 16/12/2014 | Add new commands addCgInvoice and refundCgInvoice |
| 1.4 | Goldy Zitron | 10/02/2016 | Add support new parameters |
| 1.5 | Goldy Zitron | 18/02/2016 | Add support income split |
| 1.6 | Miriam Rosenthal | 15/02/2017 | Add new tag sendMail (only for tamal) |
| 1.7 | Goldy Zitron | 13/06/2018 | Add new invoice type |

1. General

- 1.1 CG Gateway offers vast functionality for clearing credit card transactions.
- 1.2 When performing credit card transaction, an option to produce an invoice as part of the transaction is available.
- 1.3 Invoices are generated automatically using a third party vendor for invoicing (TAMALs AccountBook or Invoice4U) when supplying the appropriate invoice details within the transaction details.
- 1.4 When appropriate credentials are submitted the invoice can be sent via E-Mail to the card holder.
- 1.5 In addition The merchant can manage the created invoices via the invoice vendor site.
- 1.6 The invoice format is fixed, yet the invoice may contain a pre-set company logo.
- 1.7 The system support invoice generation in Hebrew. In the future the system will support generation in English as well.
- 1.8 The following document will describe the invoice creation API.

2. Related Documents

- 2.1 This document assumes prior knowledge of CG Gateway XML API.
- 2.2 The full API description is available in the "CG Gateway XML API" latest version.

3. Invoice Creation

3.1 General

3.1.1 This section details the added XML tags necessary for invoice creation.

3.1.2 Invoice creation happens when a successful doDeal command is performed with appropriate additional invoice data section

3.2 Request

```
<ashrait>
  <request>
    <command>doDeal</command>
    <requestId/>
    <dateTime/>
    <version/>
    <language/>
    <doDeal>
      ...
      <invoice>
        <invoiceCreationMethod/>
        <invoiceDate/>
        <invoiceSubject/>
        <invoiceDiscount/>
        <invoiceDiscountRate/>
        <invoiceItemCode/>
        <invoiceItemDescription/>
        <invoiceItemQuantity/>
        <invoiceItemPrice/>
        <invoiceTaxRate/>
        <invoiceComments/>
        <companyInfo/>
        <sendMail/>
        <mailTo/>
        <isItemPriceWithTax/>
        <ccDate/>
        <invoiceSignature/>
        <invoiceType/>
        <DocNotMaam/>
      </invoice>
    </doDeal>
  </request>
</ashrait>
```

3.2.1 Request Tags:

| TAG | Format | Mandatory | Remark |
|-----------------------|-----------|-----------|--|
| Invoice | | Yes | Parent tag for invoice creation |
| invoiceCreationMethod | post wait | Yes | post – a-synchronous invoice creation with immediate response. |

| | | | |
|------------------------|-------------------------------|-----|--|
| | | | wait – synchronous invoice creation. |
| invoiceDate | YYYY-MM-DD | Yes | Invoice Date – Default is current date |
| invoiceSubject | Alpha Numeric and Space (255) | Yes | Invoice subject |
| invoiceDiscount | Numeric | No | Invoice discount in agorot/cents – default is 0 |
| invoiceDiscountRate | Percentage XXX.XX | No | Invoice discount percent – default is 0.00 |
| invoiceItemCode | Numeric (500) | Yes | Item Code (makat) |
| invoiceItemDescription | Alpha Numeric and Space (500) | Yes | Item description |
| invoiceItemQuantity | Numeric XXX.XX | Yes | Item quantity |
| invoiceItemPrice | Numeric (500) | Yes | Item price in agorot/cents |
| invoiceTaxRate | Percentage XXX.XX | No | Item tax rate (percentage) |
| invoiceComments | Alpha Numeric and Space (255) | No | Invoice comments |
| companyInfo | Alpha Numeric and Space (255) | Yes | Customer full details |
| mailTo | Char (80) x@x.x | Yes | Mailing address for automatic invoice sending |
| sendMail | Numeric 0 1 | No | Indication whether send mail with an invoice to end user. This field is supported when the invoice vendor is TAMAL |

| | | | |
|--------------------|---|-----|---|
| isItemPriceWithTax | Numeric 0 1 | Yes | Indication whether the item price include tax |
| ccDate | YYYY-MM-DD | Yes | Payment date |
| invoiceSignature | Binary base 64 data | No | Signature gif (FFU) – not supported at the moment. |
| invoiceType | Possible values: tax taxreceipt receipt receiptdonation order pricequote incomesplitting contributionwithinco invoicetransaction transactionaccount | No | The invoice type. The tag is NOT mandatory, and when absent the type will be taken from the configuration. This field is supported when the invoice vendor is TAMAL. |
| DocNotMaam | Numeric 0 1 | No | Indication whether the tax fields are include in the invoice display. Value: 1 – tax included Value 2: – tax not included isItemPriceWithTax should be with value 0 when DocNotMaam is 1. When DocNotMaam is absent the gateway behaves as DocNotMaam=1 (Default value) |

| | | | |
|---------------|-------------------------------|----|---|
| DocRemark | Alpha Numeric and Space (255) | No | Invoice general description/remark. This field is supported when the invoiceType equals "receipt" and the invoice vendor is TAMAL |
| clientOsekNum | Numeric (9) | No | "מספר עוסק" of the client, numeric string. Optional This field is supported when the invoice vendor is TAMAL. |
| clientAddress | Alpha Numeric (60) | No | Address of the client the document is being issued to. Compulsory, use an empty string when data is not available. Max length 60 symbols. This field is supported when the invoice vendor is TAMAL |

3.2.2 Multiple Invoice Item Support

3.2.2.1 Creating an invoice with multiple items is possible provided that the following four fields maintain the same item count separated by the pipe symbol ("|"):

3.2.2.1.1 invoiceItemCode

3.2.2.1.2 invoiceItemDescription

3.2.2.1.3 invoiceItemQuantity

3.2.2.1.4 invoiceItemPrice

For example invoice with two items:

```
<invoiceItemCode>11010|551</invoiceItemCode>
<invoiceItemDescription>1 שם פריט|2 שם פריט</invoiceItemDescription>
<invoiceItemQuantity>3|2</invoiceItemQuantity>
<invoiceItemPrice>1500|2000</invoiceItemPrice>
```

3.2.3 Amount Total Validation

3.2.3.1 In order to produce a valid invoice amount validation is performed.

3.2.3.2 If amount validation fails the invoice creation will fail.

3.2.3.3 Method of to calculate:

$$\text{invoiceItemPrice} * \text{invoiceItemQuantity} = \text{total}$$

For some items:

$$(\text{invoiceItemPrice} * \text{invoiceItemQuantity}) + (\text{invoiceItemPrice} * \text{invoiceItemQuantity}) = \text{total}$$

3.2.4 Discount Management:

3.2.4.1 When using a discount in the invoice creation Only one of the two following variables may be set:

3.2.4.1.1 invoiceDiscount

3.2.4.1.2 invoiceDiscountRate

3.2.4.2 Method of to calculate

$$\begin{aligned} \text{invoiceItemPrice} * \text{invoiceItemQuantity} - \text{invoiceDiscount} &= \text{total} \\ \text{invoiceItemPrice} * \text{invoiceItemQuantity} * (100 - \text{invoiceDiscountRate}) & \\ / 100 &= \text{total} \end{aligned}$$

Example For two items:

```
total = 99 (Item price and invoice discount in agorot)
<invoiceDiscount>1100</invoiceDiscount>
<invoiceItemQuantity>2|2</invoiceItemQuantity>
<invoiceItemPrice>4000|1500</invoiceItemPrice>
Or:
<invoiceDiscountRate>10.00</invoiceDiscountRate>
<invoiceItemQuantity>2|2</invoiceItemQuantity>
<invoiceItemPrice>4000|1500</invoiceItemPrice>
```


3.2.5 Using with a tax in the invoice:

- 3.2.5.1 This is possible by using with only one variable: `isItemPriceWithTax`.
- 3.2.5.2 The indication affects the amounts fields: `invoiceItemPrice`, `invoiceDiscount`.
- 3.2.5.3 May be set `isItemPriceWithTax = 0` - the amount without tax
or `isItemPriceWithTax = 1` – the amount with tax.

Method of to calculate:

$(100 + \text{tax}) / 100 = \text{amount with tax}$

`invoiceItemPrice` For example: `invoiceItemPrice with tax = 50`, `tax = 18%`:
 $50 / 1.18 = 42.37 = \text{invoiceItemPrice without tax}$

`invoiceDiscount` for example: `invoiceDiscount with tax = 22`, `tax = 18%`:
 $118/100 = 22 \rightarrow 22 / 1.18 = 18.64 = \text{invoiceDiscount without tax}$

3.2.6 Anyway, transaction is performed even if invoice creation fails

3.3 Response

```
<ashrait>
  <response>
    <command>doDeal</command>
    <requestId/>
    <dateTime/>
    <version/>
    <language/>
    <tranId/>
    <result/>
    <message/>
    <userMessage/>
    <additionalInfo/>
    <doDeal>
      ...
      <invoice>
        <invoiceAtranId/>
        <invoiceCreationMethod/>
        <invoiceResponseCode/>
        <invoiceResponseName/>
        <invoiceDocNumber/>
        <invoiceDocUrl/>
        <invoiceCreationDate/>
        <mailTo/>
        <invoiceCreationCode/>
      </invoice>
    </doDeal>
  </response>
</ashrait>
```

3.3.1 Response Tags:

| TAG | Format | Remark |
|-----------------------|-------------|---|
| Invoice | | Parent tag for invoice creation |
| invoiceAtranId | Numeric | Related transaction identifier |
| invoiceCreationMethod | post wait | Sent creation method is retrieved |
| invoiceResponseCode | Numeric | Invoice vendor creation response code (100=success) |
| invoiceResponseName | Char (255) | Invoice vendor creation response text |
| invoiceDocNumber | Char(255) | Invoice vendor assigned invoice identification. |
| invoiceDocUrl | Char (1024) | Invoice URL for invoice browsing |
| invoiceCreationDate | Epoch | Invoice creation date. |
| mailTo | Char(50) | Email address |
| invoiceCreationCode | Numeric | Invoice creation code. |

3.1 The following is XML example for automatic creation of an invoice within an existing XML

API call:

Request

```
<ashrait>
  <request>
    <version>1000</version>
    <language>Eng</language>
    <command>doDeal</command>
    <requestId>YYYYYY</requestId>
    <doDeal>
      <currency>ILS</currency>
      <cardExpiration>1212</cardExpiration>
      <user>user data here</user>
      <terminalNumber>XXXXXXX</terminalNumber>
      <validation>AutoComm</validation>
      <transactionCode>Phone</transactionCode>
      <creditType>RegularCredit</creditType>
      <authNumber>XXXXXX</authNumber>
      <transactionType>Debit</transactionType>
      <total>44000</total>
      <cardNo>4580458045804580</cardNo>
      <invoice>
        <invoiceCreationMethod>wait</invoiceCreationMethod>
        <invoiceDate/>
        <invoiceSubject>חשבונית דוגמא</invoiceSubject>
        <invoiceDiscount>10</invoiceDiscount>
        <invoiceDiscountRate/>
        <invoiceItemCode>11010</invoiceItemCode>
        <invoiceItemDescription>שם פריט</invoiceItemDescription>
        <invoiceItemQuantity>3</invoiceItemQuantity>
        <invoiceItemPrice>150</invoiceItemPrice>
        <invoiceTaxRate/>
        <invoiceComments>הערה לחשבונית</invoiceComments>
        <companyInfo>שם לקוח</companyInfo>
        <mailto>Israel.israeli@creditguard.co.il</mailto>
        <sendMail>1</sendMail>
        <isItemPriceWithTax>1</isItemPriceWithTax>
        <ccDate>2015-01-04</ccDate>
        <invoiceSignature/>
      </invoice>
    </doDeal>
  </request>
</ashrait>
```

3.2 Response

```

<ashrait>
  <response>
    <command>doDeal</command>
    <dateTime>2010-08-12 15:30</dateTime>
    <requestId>YEFUK5J41</requestId>
    <tranId>7114612</tranId>
    <result>000</result>
    <message>Permitted transaction.</message>
    <userMessage>Permitted transaction.</userMessage>
    <additionalInfo/>
    <version>1000</version>
    <language>ENG</language>
    <doDeal>
      <status>000</status>
      <statusText>Permitted transaction.</statusText>
      <terminalNumber>XXXX</terminalNumber>
      <cardNo>XXXXXXXXXXXX4580</cardNo>
      <cardName/>
      <cardExpiration>1212</cardExpiration>
      <cardType code="0">Local</cardType>
      <creditCompany code="22">Visa</creditCompany>
      <cardBrand code="2">Visa</cardBrand>
      <cardAcquirer code="2">Visa</cardAcquirer>
      <serviceCode>000</serviceCode>
      <transactionType code="02">AuthDebit</transactionType>
      <creditType code="1">RegularCredit</creditType>
      <currency code="ILS">ILS</currency>
      <transactionCode code="50">Phone</transactionCode>
      <total>44000</total>
      <balance>          </balance>
      <starTotal>0</starTotal>
      <firstPayment/>
      <periodicalPayment/>
      <numberOfPayments/>
      <clubId/>
      <clubCode>0</clubCode>
      <validation code="4">AutoComm</validation>
      <commReason code=" " >NoComm</commReason>
      <idStatus code="3">NotValidated</idStatus>
      <cvvStatus code="0">Absent</cvvStatus>
      <authSource code="3">VoiceMail</authSource>
      <authNumber>XXXXX</authNumber>
      <fileNumber>44</fileNumber>
      <slaveTerminalNumber></slaveTerminalNumber>
      <slaveTerminalSequence></slaveTerminalSequence>
      <creditGroup/>
      <pinKeyIn>0</pinKeyIn>
      <pfsc>0</pfsc>
      <eci>0</eci>
      <cavv code=" " />
      <user>user data here</user>
      <addonData/>
      <supplierNumber>ZZZZZZZ</supplierNumber>
      <intIn>XXXXXXXXXXXX</intIn>
      <intOt>YYYYYYYYYYYY</intOt>
      <invoice>
        <invoiceAtranId>7114612</invoiceAtranId>
        <invoiceCreationMethod>wait</invoiceCreationMethod>
        <invoiceResponseCode>100</invoiceResponseCode>
      </invoice>
    </doDeal>
  </response>
</ashrait>
  
```

```

<invoiceResponseName>Success</invoiceResponseName>
<invoiceDocNumber>85980</invoiceDocNumber>
<invoiceDocUrl>
https://account.invoice4u.co.il/User/Print/print_invoice_receipt.aspx?x=%2bG
nd9IiGHx5%2fOtWn27SguU9nGiilqsGQ1YKpr%2bAHujzU5dkoL1ARVj0TvwqFTkyhveRaeQxlf7
g04MLDi0sRiwr7uggSP5lHpRqGgNLk1X9WJZ8IdFrF%2bWAKX3vnPsU0N6tFfN6GJwO5o78SlpNW
hg%3d%3d
</invoiceDocUrl>
<invoiceCreationDate>1424952894</invoiceCreationDate>
<mailto>isreal.israeli@creditguard.co.il</mailto>
<invoiceCreationCode>000</invoiceCreationCode>
</invoice>
</doDeal>
</response>
</ashrait>

```

4. Credit Transactions

- 4.1 Credit transactions are treated the same as regular transactions.
- 4.2 When using the API, the merchant should send **invoiceItemPrice** as **negative amount**.

5. Overriding invoice supplier account details in the request

- 5.1 When creating an invoice the CGGateway forward the invoice request to the relevant invoice vendor/provider (TAMALs AccountBook or Invoice4U).
- 5.2 The authentication parameters to the invoice vendor/provider are determined from the pre-configured terminal parameters of the terminal number that is included in the request.
- 5.3 Hence these pre-configured terminal parameters are the default parameters for the actual terminal.
- 5.4 If needed you can override these default parameters if supplying them as additional parameters as part of the <invoice> in the "doDeal" request.
- 5.5 If authenticating to TAMALs AccountBook the "doDeal" request should include the additional parameters:
 - 5.5.1 invoiceVendorUser – AccountBook username (given by AccountBook)
 - 5.5.2 invoiceVendorKey – AccountBook password (given by AccountBook)
 - 5.5.3 invoiceEsekNumber – system registration number of document issuer business (given by AccountBook)
 - 5.5.4 invoiceClientNumber – system client number under issuer the document is being issued to (given by AccountBook)
- 5.6 If authenticating to Invoice4U the "doDeal" request should include the additional parameters:
 - 5.6.1 invoiceVendorUser – Invoice4U username (given by Invoice4U)
 - 5.6.2 invoiceVendorKey – Invoice4U secret key (given by Invoice4U)

5.7 Request example:

```
<ashrait>
  <request>
    <version>1000</version>
    <language>HEB</language>
    <command>doDeal</command>
    <doDeal>
      <currency>ILS</currency>
      <cardExpiration>1216</cardExpiration>
      <user>userdatahere</user>
      <terminalNumber>0962831</terminalNumber>
      <validation>AutoComm</validation>
      <transactionCode>Phone</transactionCode>
      <creditType>RegularCredit</creditType>
      <authNumber>12345</authNumber>
      <transactionType>Debit</transactionType>
      <total>11000</total>
      <cardNo>XXXXXXXXXX4580</cardNo>
      <invoice>
        <invoiceVendorUser>XXXXXXXXXX</invoiceVendorUser>
        <invoiceVendorKey>XXXXXXXXXX</invoiceVendorKey>
        <invoiceEsekNumber>750036</invoiceEsekNumber>
        <invoiceClientNumber>200000</invoiceClientNumber>
        <invoiceCreationMethod>wait</invoiceCreationMethod>
        <invoiceDate></invoiceDate>
        <invoiceSubject>subjectchar255</invoiceSubject>
        <invoiceDiscount></invoiceDiscount>
        <invoiceDiscountRate></invoiceDiscountRate>
        <invoiceItemCode>1|2|3</invoiceItemCode>
        <invoiceItemDescription>descriptionchar|desc2100|sss
          </invoiceItemDescription>
        <invoiceItemQuantity>3|2|1</invoiceItemQuantity>
        <invoiceItemPrice>2000|2000|1000</invoiceItemPrice>
        <clientAddress>client address</clientAddress>
        <invoiceTaxRate></invoiceTaxRate>
        <GeneralRemark>GeneralddfRemark</GeneralRemark>
        <DocTypeRemark>DocTypeRemark</DocTypeRemark>
        <DocRemark>DoctestRemark</DocRemark>
        <invoiceComments>drxdlgypiz</invoiceComments>
        <companyInfo>0962922inveriphonpost</companyInfo>
        <mailto>goldyz@creditguard.co.il</mailto>
        <sendMail>1</sendMail>
        <isItemPriceWithTax>1</isItemPriceWithTax>
        <DocNotMaam></DocNotMaam>
        <ccDate>2016-02-10</ccDate>
        <invoiceType></invoiceType>
      </invoice>
    </doDeal>
  </request>
</ashrait>
```

6. Creating Accounting Document for Split Income (מסמך פיצול הכנסות)

- 6.1 Merchants that are defined as non-for-profit organizations (such as "Amuta" or "Malcar") can use special type of document called split income (מסמך פיצול הכנסות).

- 6.2 The split income call create two types of documents the first document describing the items in the order and the second describe in detail the payment method (credit card in our case).
- 6.3 This special feature can only be used for documents that are created using TAMALs AccountBook.
- 6.4 There are two types split invoices
 - 6.4.1 Receipt with income splitting
 - 6.4.2 Donation receipt with income splitting
- 6.5 The request structure is identical to the structure of the creation for receipt document, except for the following changes in the request XML fields:
 - 6.5.1 invoiceType –
 - 6.5.1.1 Set value of "incomesplitting" – for receipt with income splitting
 - 6.5.1.2 Set value of "contributionwithincomesplitting" – for donation receipt with income splitting
 - 6.5.2 invoiceItemCode – item code must be defined and have been recognized as MAKAT in TAMALs AccountBook system.
 - 6.5.3 isItemPriceWithTax – must be sent with value 0.
 - 6.5.4 DocNotMaam – must be sent with value 1.
- 6.6 Also the response structure has changed in order to describe the two types of documents that has been created.

The following fields has value changes:

 - 6.6.1 invoiceDocUrl – formatted using a comma in order to separate between the URLs of two documents.
 - 6.6.2 invoiceDocNumber - formatted using a comma in order to separate between invoice number of two documents.
 - 6.6.3 invoiceResponseName/invoiceResponseCode – On case of issuing a failed documents the fields are formatted using a comma in order to separate between results text/code. On case of issuing a successful documents the fields will have no change in its default format.

6.7 Request & response example

```
<ashrait>
  <request>
    <version>1000</version>
    <language>HEB</language>
    <command>doDeal</command>
    <doDeal>
      <currency>ILS</currency>
```

```

<cardExpiration>1216</cardExpiration>
<user>userdatahere</user>
<terminalNumber>0962831</terminalNumber>
<validation>AutoComm</validation>
<transactionCode>Phone</transactionCode>
<creditType>RegularCredit</creditType>
<authNumber>12345</authNumber>
<transactionType>Debit</transactionType>
<total>10620</total>
<cardNo>XXXXXXXXXX2312</cardNo>
<invoice>
  <invoiceCreationMethod>wait</invoiceCreationMethod>
  <invoiceDate/>
  <invoiceSubject>test-monday</invoiceSubject>
  <invoiceDiscount></invoiceDiscount>
  <invoiceDiscountRate></invoiceDiscountRate>
  <invoiceType>incomesplitting</invoiceType>
  <invoiceItemCode>110</invoiceItemCode>
  <invoiceItemDescription>new-shorts</invoiceItemDescription>
  <invoiceItemQuantity>1</invoiceItemQuantity>
  <invoiceItemPrice>9000</invoiceItemPrice>
  <invoiceTaxRate/>
  <invoiceComments>comment-test</invoiceComments>
  <companyInfo>test-test</companyInfo>
  <mailTo>adim@creditguard.co.il</mailTo>
  <isItemPriceWithTax>0</isItemPriceWithTax>
  <DocNotMaam>1</DocNotMaam>
  <ccDate>01/02/2016</ccDate>
</invoice>
</doDeal>
</request>
</ashrait>

```

```

<ashrait>
  <response>
    <command>doDeal</command>
    <dateTime>2016-02-08 16:59</dateTime>
    <requestId></requestId>
    <tranId>13901268</tranId>
    <result>000</result>
    <message>עסקה תקינה</message>
    <userMessage>עסקה תקינה</userMessage>
    <additionalInfo></additionalInfo>
    <version>1000</version>
    <language>Heb</language>
    <doDeal>
      <status>000</status>
      <statusText>עסקה תקינה</statusText>
      <terminalNumber>0962831</terminalNumber>
      <cardId>1073306099692312</cardId>
      <cardBin>12</cardBin>
      <cardMask>12**2312</cardMask>
      <cardLength>8</cardLength>
      <cardNo>xxxx2312</cardNo>
      <cardName>ישראל כרטיס</cardName>
      <cardExpiration>1216</cardExpiration>
      <cardType code="0">Local</cardType>
      <extendedCardType>Credit</extendedCardType>
    </doDeal>
  </response>
</ashrait>

```



```

<creditCompany code="10">Isracard</creditCompany>
<cardBrand code="5">Isracard</cardBrand>
<cardAcquirer code="1">Isracard</cardAcquirer>
<serviceCode>000</serviceCode>
<transactionType code="02">AuthDebit</transactionType>
<creditType code="1">RegularCredit</creditType>
<currency code="1">ILS</currency>
<transactionCode code="50">Phone</transactionCode>
<total>10620</total>
<balance></balance>
<starTotal>0</starTotal>
<firstPayment></firstPayment>
<periodicalPayment></periodicalPayment>
<numberOfPayments></numberOfPayments>
<clubId></clubId>
<clubCode>0</clubCode>
<validation code="4">AutoComm</validation>
<commReason code=""></commReason>
<idStatus code="0">Absent</idStatus>
<cvvStatus code="0">Absent</cvvStatus>
<authSource code="3">VoiceMail</authSource>
<authNumber>0012345</authNumber>
<fileNumber>34</fileNumber>
<slaveTerminalNumber>000</slaveTerminalNumber>
<slaveTerminalSequence>300</slaveTerminalSequence>
<creditGroup> 1</creditGroup>
<pinKeyIn>0</pinKeyIn>
<pfsc>0</pfsc>
<eci>0</eci>
<cavv code=" "></cavv>
<user>userdatahere</user>
<addonData></addonData>
<supplierNumber>5613203</supplierNumber>

<intIn>Bxxxxxxxx2312C10620D011150E0012345J4TxxxxXuserdatahere</intIn>
  <intOt>0000xxxxxxxxxxxxxxxx2312510004xxxx0000010620
000000001021 150 300123450000000000000000000034001001      טרכארשי
userdatahere</intOt>
  <id></id>
  <shiftId1></shiftId1>
  <shiftId2></shiftId2>
  <shiftId3></shiftId3>
  <shiftTxnDate></shiftTxnDate>
  <authAmount></authAmount>
  <invoice>
    <invoiceCreationMethod>wait</invoiceCreationMethod>
    <invoiceResponseCode>100</invoiceResponseCode>
    <invoiceResponseName>בקשת חשבונית תקינה</invoiceResponseName>
    <invoiceDocNumber>60098,40070</invoiceDocNumber>

<invoiceDocUrl>http://212.143.181.190/TiuditWeb/GetPreview.aspx?pl=haWzO%2bH
9drpyYvNuXWj0o9%2f%2fVbd5rQqmKUTNHRP9Pk%2fVTkpyOhPYtqJohRVW5S8jMo41OVjapq1EL
QdxqOkMgA%3d%3d,http://212.143.181.190/TiuditWeb/GetPreview.aspx?pl=irohkqHz
JNItUdzm2uFeqkSdqMPKvXkUFlN4a12f9C7xje7KrODF%2f1dGv%2fKhyfMIDkWG8UYfp22c%2fv
03AX5enQ%3d%3d</invoiceDocUrl>
    <invoiceAtranId>13901268</invoiceAtranId>
    <invoiceCreationDate>1454943589</invoiceCreationDate>
    <mailto>adim@creditguard.co.il</mailto>
    <invoiceCreationCode>000</invoiceCreationCode>
  </invoice>

```

```
</doDeal>  
</response>  
</ashrait>
```

7. Invoice Query

7.1 General

- 7.1.1 One might want to query the system for invoice status.
- 7.1.2 This can be performed using the inquireInvoice command.
- 7.1.3 All invoice related attributes will be returned as stored at CG Gateway.
- 7.1.4 This might be useful when using the “post” method for invoice creation (a-synchronous creation) and querying the system at a later time for invoice details.

7.2 Request

```
<ashrait>
  <request>
    <command>inquireInvoice</command>
    <requestId/>
    <dateTime/>
    <version/>
    <language/>
    <inquireInvoice>
      <invoice>
        <invoiceAtranId>9892810</invoiceAtranId>
      </invoice>
    </inquireInvoice>
  </request>
</ashrait>
```

7.3 Response

```
<ashrait>
  <request>
    <command>inquireInvoice</command>
    <requestId/>
    <dateTime/>
    <version/>
    <language/>
    <result/>
    <message/>
    <inquireInvoice>
      <invoice>
        <invoiceAtranId>9892810</invoiceAtranId>

        <invoiceCreationMethod>post|wait</invoiceCreationMethod>
        <invoiceResponseCode/>
        <invoiceResponseName/>
        <invoiceDocNumber/>
        <invoiceDocUrl/>
        <invoiceCreationDate/>
        <mailTo/>
        <invoiceCreationCode/>
      </invoice>
    </inquireInvoice>
  </request>
</ashrait>
```

8. Invoice Creation in Cancel or Refund Deal

8.1 General

8.1.1 This section describes a cancel or refund deal.

8.1.1.1 For more information about cancel or refund deals please refer to the related document.

8.1.2 When performing a cancel deal or a refund deal one may add the invoice request tags (describes [above](#)) in order to create an invoice.

8.1.3 When a cancel invoice was created another invoice segment will appear in the CG Console transactions log for the original transaction. Meaning the original transaction will have both original invoice and canceled invoice.

8.1.4 Additional request tags for cancel or refund deal:

| TAG | Format | Remark |
|---------------|---------|---|
| createInvoice | numeric | <p>This tag is only relevant to cancelDeal or refundDeal commands</p> <p>0 – Do not create invoice.</p> <p>1 – Create invoice by copying the values of the original invoice.</p> <p>2 – Create invoice by values provided in the request.</p> <p>When this value is not inserted it will be considered as 0 and will not create an invoice.</p> |

8.1.5 When performing a refund deal with an amount that is different than the original amount (partial refund) and the createInvoice value is set to 1. The system will create an invoice with 1 generic refund item. The item name will be "partial refund".

8.1.6 The system cannot create invoice when trying to cancel a credit transaction.

8.1.7 The system cannot create an invoice using original transaction values if the invoice of the original transaction was unsuccessful.

8.2 Cancel Request – do not create an invoice

```
<ashrait>
<request>
```

```

<command>cancelDeal</command>
<requestid/>
<dateTime>
</dateTime>
<version>1000</version>
<language>EN</language>
<cancelDeal>
    ...
    <invoice>
        <createInvoice>0</createInvoice>
    </invoice>
</cancelDeal>
</request>
</ashrait>

```

8.3 Cancel Request – create invoice with original invoice values.

```

<ashrait>
  <request>
    <command>cancelDeal</command>
    <requestid/>
    <dateTime>
    </dateTime>
    <version>1000</version>
    <language>EN</language>
    <cancelDeal>
      ...
      <invoice>
        <createInvoice>1</createInvoice>
      </invoice>
    </cancelDeal>
  </request>
</ashrait>

```

8.4 Cancel Response

```

<ashrait>
  <response>
    <command>cancelDeal</command>
    <requestId/>
    <dateTime/>
    <version/>
    <language/>
    <tranId/>
    <result/>
    <message/>
    <userMessage/>
    <additionalInfo/>
    <cancelDeal>
      ...
      <invoice>
        <invoiceAtranId/>
        <invoiceCreationMethod/>
        <invoiceResponseCode/>
        <invoiceResponseName/>
        <invoiceDocNumber/>
        <invoiceDocUrl/>
      </invoice>
    </cancelDeal>
  </response>
</ashrait>

```

```
                <invoiceCreationDate/>
                <mailTo/>
                <invoiceCreationCode/>
            </invoice>
        </cancelDeal>
    </response>
</ashrait>
```

8.5 Refund Request – do not create an invoice

```
<ashrait>
  <request>
    <command>refundDeal</command>
    <requestid/>
    <dateTime>
    </dateTime>
    <version>1000</version>
    <language>EN</language>
    <refundDeal>
      ...
      <invoice>
        <createInvoice>0</createInvoice>
      </invoice>
    </refundDeal>
  </request>
</ashrait>
```

8.6 Refund Request – create invoice with original invoice values.

```
<ashrait>
  <request>
    <command>refundDeal</command>
    <requestid/>
    <dateTime>
    </dateTime>
    <version>1000</version>
    <language>EN</language>
    <refundDeal>
      ...
      <invoice>
        <createInvoice>1</createInvoice>
      </invoice>
    </refundDeal>
  </request>
</ashrait>
```

8.7 Refund Request – create invoice by values provided in the request.

```
<ashrait>
  <request>
    <command>refundDeal</command>
    <requestid/>
    <dateTime>
    </dateTime>
    <version>1000</version>
    <language>EN</language>
    <refundDeal>
      ...
```

```

    <invoice>
      <createInvoice>2</createInvoice>
      <invoiceCreationMethod/>
      <invoiceDate/>
      <invoiceSubject/>
      <invoiceDiscount/>
      <invoiceDiscountRate/>
      <invoiceItemCode/>
      <invoiceItemDescription/>
      <invoiceItemQuantity/>
      <invoiceItemPrice/>
      <invoiceTaxRate/>
      <invoiceComments/>
      <companyInfo/>
      <sendMail/>
      <mailTo/>
      <isItemPriceWithTax/>
      <ccDate/>
      <invoiceSignature/>
      <invoiceType/>
    </invoice>
  </refundDeal>
</request>
</ashrait>

```

8.8 Refund Response

```

<ashrait>
  <response>
    <command>refundDeal</command>
    <requestId/>
    <dateTime/>
    <version/>
    <language/>
    <tranId/>
    <result/>
    <message/>
    <userMessage/>
    <additionalInfo/>
    <refundDeal>
      ...
      <invoice>
        <invoiceAtranId/>
        <invoiceCreationMethod/>
        <invoiceResponseCode/>
        <invoiceResponseName/>
        <invoiceDocNumber/>
        <invoiceDocUrl/>
        <invoiceCreationDate/>
        <mailTo/>
        <invoiceCreationCode/>
      </invoice>
    </refundDeal>
  </response>
</ashrait>

```

9. Send cgInvoice request without transaction:

9.1 The following is XML example for automatic creation of an invoice within an existing XML API call:

9.1.1 addCgInvoice for doDeal transaction

9.1.1.1 Request

```
<ashrait>
  <request>
    <version>1000</version>
    <language>Eng</language>
    <command>addCgInvoice</command>
    <requestId>YYYYYY</requestId>
    <addCgInvoice>
      <invoiceAtranId>XXXXX</invoiceAtranId>
      <invoice>
        <invoiceCreationMethod>wait</invoiceCreationMethod>
        <invoiceDate/>
        <invoiceSubject>חשבונית דוגמא</invoiceSubject>
        <invoiceDiscount>10</invoiceDiscount>
        <invoiceDiscountRate/>
        <invoiceItemCode>11010</invoiceItemCode>
        <invoiceItemDescription>שם
פריט</invoiceItemDescription>
        <invoiceItemQuantity>3</invoiceItemQuantity>
        <invoiceItemPrice>150</invoiceItemPrice>
        <invoiceTaxRate/>
        <invoiceDiscountRate/>
        <invoiceComments>הערה לחשבונית</invoiceComments>
        <companyInfo>שם לקוח</companyInfo>
        <sendMail>1</sendMail>
        <mailto>Israel.israeli@creditguard.co.il</mailto>
        <isItemPriceWithTax>1</isItemPriceWithTax>
        <ccDate>2015-01-04</ccDate>
        <invoiceSignature/>
      </invoice>
    </addCgInvoice>
  </request>
</ashrait>
```

9.1.1.2 Response

```
<ashrait>
  <response>
    <command>addCgInvoice</command>
    <dateTime>2010-08-12 15:30</dateTime>
    <requestId>YEFUK5J41</requestId>
    <tranId>7114612</tranId>
    <result>000</result>
    <message>Permitted transaction.</message>
    <userMessage>Permitted transaction.</userMessage>
    <additionalInfo/>
    <version>1000</version>
    <language>ENG</language>
    <addCgInvoice>
      <invoice>
        <invoiceAtranId>7114612</invoiceAtranId>
        <invoiceCreationMethod>wait</invoiceCreationMethod>
```



```

        <invoiceResponseCode>100</invoiceResponseCode>
        <invoiceResponseName>Success</invoiceResponseName>
        <invoiceDocNumber>85980</invoiceDocNumber>
        <invoiceDocUrl>
https://account.invoice4u.co.il/User/Print/print_invoice_receipt.aspx?x=%2bG
nd9IiGHx5%2fOtWn27SguU9nGiilqsGQ1YKpr%2bAHujzU5dkoL1ARVj0TvwqFTkyhveRaeQxlf7
g04MLDi0sRiWR7uggSP5lHpRqGgNLk1X9WJZ8IdFrF%2bWAKX3vnPsU0N6tFfN6GJwO5o78SlpNW
hg%3d%3d
        </invoiceDocUrl>
        <invoiceCreationDate>2011-02-09
19:27:31</invoiceCreationDate>
        <mailto>isreal.israeli@creditguard.co.il</mailto>
        <invoiceCreationCode>000</invoiceCreationCode>
    </invoice>
</addCgInvoice>
</response>
</ashrait>

```

9.1.2 refundCgInvoice for refundDeal/ cancelDeal transaction

9.1.2.1 refundCgInvoice Request with full refundDeal

```

<ashrait>
  <request>
    <version>1000</version>
    <language>Eng</language>
    <command>refundCgInvoice</command>
    <requestId>YYYYYY</requestId>
    <refundCgInvoice>
      <invoiceAtranId>XXXXX</invoiceAtranId>
      <invoice>
        <createInvoice>1</createInvoice>
      </invoice>
    </refundCgInvoice>
  </request>
</ashrait>

```

9.1.2.2 Response

```

<ashrait>
  <response>
    <command>refundCgInvoice</command>
    <dateTime>2010-08-12 15:30</dateTime>
    <requestId>YEFUK5J41</requestId>
    <tranId>7114612</tranId>
    <result>000</result>
    <message>Permitted transaction.</message>
    <userMessage>Permitted transaction.</userMessage>
    <additionalInfo/>
    <version>1000</version>
    <language>ENG</language>
    <refundCgInvoice>
      <invoice>
        <invoiceAtranId>7114612</invoiceAtranId>
        <invoiceCreationMethod>wait</invoiceCreationMethod>
        <invoiceResponseCode>100</invoiceResponseCode>
        <invoiceResponseName>Success</invoiceResponseName>
        <invoiceDocNumber>85980</invoiceDocNumber>
        <invoiceDocUrl>

```

```

https://account.invoice4u.co.il/User/Print/print_invoice_receipt.aspx?x=%2bG
nd9IiGHx5%2fOtWn27SguU9nGiilqsGQ1YKpr%2bAHujzU5dkoL1ARVj0TvwqFTkyhveRaeQxlf7
g04MLDi0sRiWR7uggSP5lHpRqGgNLk1X9WJZ8IdFrF%2bWAKX3vnPsU0N6tFfN6GJwO5o78SlpNW
hg%3d%3d
        </invoiceDocUrl>
        <invoiceCreationDate>2011-02-09
19:27:31</invoiceCreationDate>
        <mailto>isreal.israeli@creditguard.co.il</mailto>
        <invoiceCreationCode>000</invoiceCreationCode>
    </invoice>
</refundCgInvoice>
</response>
</ashrait>

```

9.1 refundCgInvoice Request – create invoice by values provided in the new request use in partial refund Deal.

```

<ashrait>
  <request>
    <command>refundCgInvoice</command>
    <requestid/>
    <dateTime>
    </dateTime>
    <version>1000</version>
    <language>EN</language>
    <refundCgInvoice>
      ...
      <invoice>
        <createInvoice>2</createInvoice>
        <invoiceCreationMethod/>
        <invoiceDate/>
        <invoiceSubject/>
        <invoiceDiscount/>
        <invoiceDiscountRate/>
        <invoiceItemCode/>
        <invoiceItemDescription/>
        <invoiceItemQuantity/>
        <invoiceItemPrice/>
        <invoiceTaxRate/>
        <invoiceComments/>
        <companyInfo/>
        <sendMail/>
        <mailto/>
        <isItemPriceWithTax/>
        <ccDate/>
        <invoiceSignature/>
        <invoiceType/>
      </invoice>
    </refundCgInvoice>
  </request>
</ashrait>

```

9.2 refundCgInvoice Response

```

<ashrait>
  <response>
    <command>refundCgInvoice</command>
    <requestId/>

```

```
<dateTime/>
<version/>
<language/>
<tranId/>
<result/>
<message/>
<userMessage/>
<additionalInfo/>
<refundCgInvoice>
    ...
    <invoice>
        <invoiceAtranId/>
        <invoiceCreationMethod/>
        <invoiceResponseCode/>
        <invoiceResponseName/>
        <invoiceDocNumber/>
        <invoiceDocUrl/>
        <invoiceCreationDate/>
        <mailTo/>
        <invoiceCreationCode/>
    </invoice>
</refundCgInvoice>
</response>
</ashrait>
```

10. Invoice Module Error Codes

10.1 All invoice related codes will be returned in the invoiceResponseCode and invoiceResponseName tags.

10.2 Error Codes & text

10.2.1 CG Gateway invoice Error Codes

| Code | Value | Heb Text |
|------|---|---|
| 668 | Cannot Create Invoice | לא ניתן ליצור חשבונית |
| 669 | Currency not supported for invoice creation | לא ניתן ליצור חשבונית למטבע זה לא ניתן ליצור חשבונית – ערך לא תקין |
| 670 | Invoice Validation Failed | תקין |
| 671 | Invoice not found | חשבונית לא נמצאה |

10.2.2 Invoice vendor response codes:

| Code | Value | Meaning |
|------|---|--|
| 100 | Success | completed successfully |
| 101 | UsernameInvalid | attempted transaction with invalid username |
| 102 | CompanyCodeAlreadyExists | attempted to create a company with an existing company code |
| 103 | CompanyCodeDoesNotExist | company code does not exist |
| 104 | CompanyCodeInvalidFormat | company code format is not numeric |
| 105 | DocumentInvalidSubject | subject line is invalid |
| 106 | DocumentDoesNotExist | document number was not found |
| 107 | SendEmailAborted | e-mailing document failed |
| 108 | EmailInvalid | invalid e-mail format |
| 109 | CultureInvalid | invalid culture |
| 110 | KeyInvalid | invalid key |
| 111 | AccountExpired | account has expired |
| 112 | DocumentInvalidItemNumber | multiple items in an invoice are in the wrong format |
| 113 | DocumentInvalidQuantity | quantity format is not numeric |
| 114 | DocumentInvalidPrice | price format is not numeric |
| 116 | DocumentDoesNotExistForSpecifiedCompany | the specified document doesn't exist or is incompatible with the |

| | | |
|-----|---------------------------------------|--|
| | | company code provided |
| 117 | CurrencyConversionServiceNotAvailable | currency conversion service is out of service |
| 118 | InvalidItemCode | unacceptable item code |
| 119 | CurrencyInWrongFormat | currency is not an integer |
| 120 | DocumentMissingItem | quantity, price, description and code must match |
| 121 | DocumentInvalidDateFormatDDMMYY | date format: DDMMYY |
| 122 | PaymentAmountDoesntMatchInvoice | total receivables must be positive |
| 123 | DocumentAmountInvalid | amount must be double |
| 124 | CashInvalidAmount | amount must be double |
| 125 | CheckInvalidAmount | amount must be double |
| 126 | CCInvalidAmount | amount must be double |
| 127 | TransInvalidAmount | amount must be double |
| 128 | CheckInvalidDateFormatDDMMYY | date format: DDMMYY |
| 129 | CCInvalidDateFormatDDMMYY | date format: DDMMYY |
| 130 | TransInvalidDateFormatDDMMYY | date format: DDMMYY |
| 131 | PaymentTotalMustBeEqualToInvoiceTotal | Payment total must be equal to invoice total |
| 132 | TaxRateInTheDocsIsNotEqual | Tax rate in the docs is not equal |
| 133 | ClientCompanyNameAlreadyExists | Client company name already exists |
| 134 | ClientTicketAlreadyExists | Client ticket already exists |

10.2.2.1 Invoice vendor response message is always returned in English

11. Invoice Supported Currencies


- 11.1 At this time, only ILS (Israeli Shekel) invoices are supported.
- 11.2 Other currencies will be processed yet no invoices will be created.

12. Invoice Example

- 12.1 As mentioned before, invoice can be both sent via e-mail or accessed from the invoiceDocUrl.
- 12.2 The invoice might contains the merchant's Logo (if provided by the merchant) and details.
- 12.3 Invoice sample:

www.arx.com - CoSign ע"י נחתם דיגיטלית
www.Invoice4U.co.il הופק במערכת

תאריך: 10/01/2011
ע"ד: 111112222



Invoice4U

קרדיטגארד בע"מ

לכבוד: שם לקוח

חשבון קבלה - מספר 85980 ILS
מקור

חשבונית דוגמא

| מקט | פרוט | כמות | מחיר | סה"כ |
|-------|---------|------|------------|------------|
| 11010 | שם פריט | 3 | 150.00 ש"ח | 450.00 ש"ח |

סה"כ: 450.00 ש"ח

הנחה לפני מע"מ 2.27 %: 10.00 ש"ח

מע"מ 0.00 %: 0.00 ש"ח

סה"כ לתשלום: 440.00 ש"ח

סה"כ לפני ניכוי: 440.00 ש"ח

סכום הניכוי: 0.00 ש"ח

סה"כ שולם: 440.00 ש"ח

| תאריך | מס כרטיס (4 ספרות) | תוקף (MM/YY) | סוג כרטיס | תעודת זהות | מס שובר | סה"כ |
|------------|--------------------|--------------|-----------|------------|---------|------------|
| 01/04/2011 | 4580 | 1212 | Visa | | 7654321 | 440.00 ש"ח |