

# API INTERFACE

Technical documentation

Last change:  
14.1.2021

## 1 API INTERFACE

### 1.1 AUTHENTICATION

For API calls, user is required to fill in the attributes, depending on whether it is used under your own account or for brokered use through a third-party administrator. Each service can be used in both ways.

#### 1.1.1 DIRECT USE

It is designed for regular users. User is required fill *Username* and *Password* fields. Attributes *ServiceId* and *ServiceUserId* are not filled in in this use.

INPUT
... <Username>test@test.test</Username> <Password>test@test.test</Password> ...

#### 1.1.2 MEDIATED USE BY THIRD-PARTY ADMINISTRATORS

It is for third-party administrators. The third-party administrator is logged in with his data, but the actions are performed on behalf of the linked user, who will also be the owner of the invoices. In this case, the *ServiceId* and *ServiceUserId* attributes are required.

INPUT
... <Username>poweruser@poweruser.poweruser</Username> <Password>poweruser@poweruser.poweruser</Password> <ServiceId>B129241E-5BCA-4EFD-9D57-CC360BE070CE</ServiceId> <ServiceUserId>ABCDEFGHR...XYZ</ServiceUserId> ...

### 1.2 SELECT COUNTRY OPTIONS

It is possible to generate QR Pay payments in Slovak and Czech formats. To generate Slovak format of QR Payments set attribute *Slovak* to true. To generate Czech format of QR Payments set attribute *Czech* to true. To generate the QR Payments format for both countries, set both attributes (*Czech* and *Slovak*) both to true.

If the *CountryOptions* attribute has not been defined, QR Pay will be generated only in the Slovak format.

VSTUP
<BySquareXmlDocuments xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> ... <CountryOptions> <Slovak>true</Slovak> <Czech>>false</Czech>

```
</CountryOptions>
<Documents>
...
```

### 1.2.1 PAY BY SQUARE CODE -> QR PLATBA CZ

Data for QR Platba CZ is defined in SPAYD (Short Payment Descriptor) format.

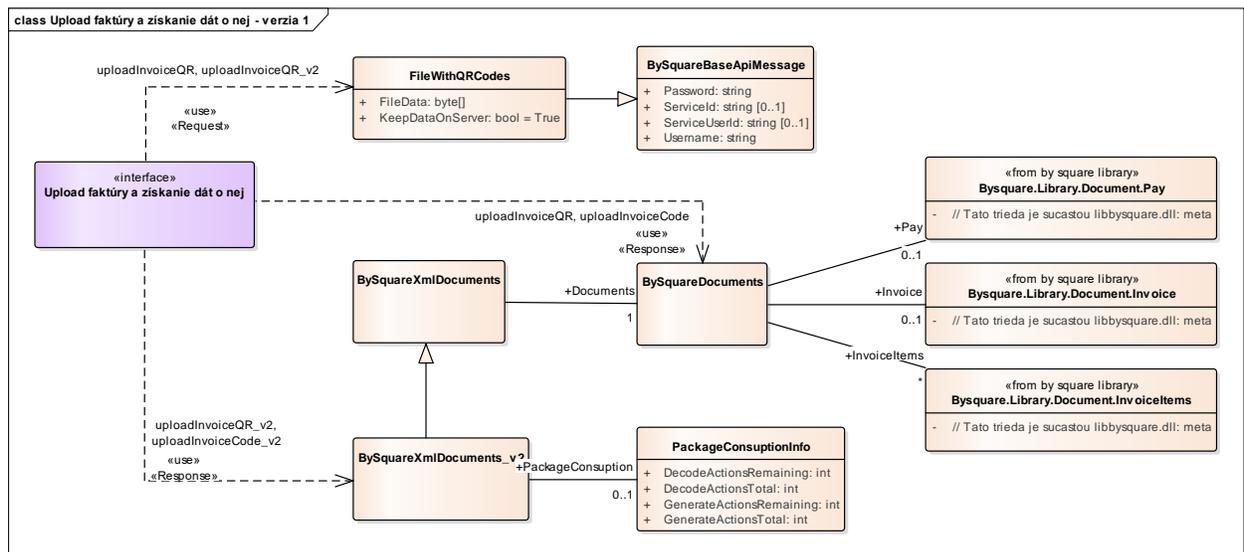
Format specification

- <https://qr-platba.cz/pro-vyvojare/specifikace-formatu/>
- [https://en.wikipedia.org/wiki/Short\\_Payment\\_Descriptor](https://en.wikipedia.org/wiki/Short_Payment_Descriptor)

Mappings of Pay By Square document to SPAYD format

SPAYD kľúč	SPAYD informácia	Pay By Square kľúč	Poznámka
ACC	Payment recipient	BankAccounts	Select first bank account as primary account
ALT-ACC	Alternative bank account list	BankAccounts	Set all bank accounts besides first
AM	A payment amount	Amount	
CC	A payment currency	CurrencyCode	
DT	Due date	PaymentDueDate	
MSG	Message for payment recipient	PaymentNote	
X-VS	Variable symbol	VariableSymbol	
X-SS	Specific symbol	SpecificSymbol	
X-KS	Constant symbol	ConstantSymbol	
RN	Beneficiary name	BeneficiaryName	

### 1.3 UPLOAD INVOICE AND GET DATA ABOUT IT - OPTION 1



This API interface service is used for invoice upload. The invoice is stored in the user's invoice repository. The service also returns recognized data from the uploaded invoice in a structured form.

Additional information on attributes:

<b>KeepDataOnServer</b>	Decides whether data are also stored on by square (TRUE) application servers or was only processed (FALSE)
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### 1.3.1 API USING DESCRIPTION

<b>TYPE</b>	POST
<b>CONTENT TYPE</b>	application/xml
<b>ADDRESS</b>	Version 1: <a href="https://app.bysquare.com/api/uploadInvoiceQR">https://app.bysquare.com/api/uploadInvoiceQR</a> Version 2: <a href="https://app.bysquare.com/api/uploadInvoiceQR_v2">https://app.bysquare.com/api/uploadInvoiceQR_v2</a>
<b>INPUT</b>	
<pre>&lt;FileWithQRCodes xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema- instance"&gt;   &lt;Username&gt;test@test.test&lt;/Username&gt;   &lt;Password&gt;test@test.test&lt;/Password&gt;   &lt;KeepDataOnServer&gt;true&lt;/KeepDataOnServer&gt;   &lt;FileData&gt;iVBORw0KGgNS...Bytes of Invoice pdf document as Base64&lt;/FileData&gt; &lt;/FileWithQRCodes&gt;</pre>	
<b>OUTPUT - Version 1</b>	
<pre>&lt;BySquareDocuments xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org /2001/XMLSchema-instance"&gt;   &lt;Invoice xsi:type="Invoice" xmlns="http://www.bysquare.com/bysquare"&gt;     &lt;InvoiceID&gt;2013019&lt;/InvoiceID&gt;     &lt;IssueDate&gt;2013-05-13T00:00:00&lt;/IssueDate&gt;     &lt;TaxPointDate&gt;2013-05-13T00:00:00&lt;/TaxPointDate&gt;     &lt;LocalCurrencyCode&gt;EUR&lt;/LocalCurrencyCode&gt;     &lt;CurrRate xsi:nil="true" /&gt;     &lt;ReferenceCurrRate xsi:nil="true" /&gt;     &lt;SupplierParty&gt;       &lt;PartyName&gt;iLancer s.r.o.&lt;/PartyName&gt;       &lt;CompanyTaxID&gt;2023187133&lt;/CompanyTaxID&gt;       &lt;CompanyVATID&gt;SK2023187133&lt;/CompanyVATID&gt;       &lt;CompanyRegisterID&gt;45960119&lt;/CompanyRegisterID&gt;       &lt;PostalAddress&gt;         &lt;StreetName&gt;Špitálska&lt;/StreetName&gt;         &lt;BuildingNumber&gt;10&lt;/BuildingNumber&gt;         &lt;CityName&gt;Bratislava&lt;/CityName&gt;         &lt;PostalZone&gt;81108&lt;/PostalZone&gt;         &lt;Country&gt;SVK&lt;/Country&gt;       &lt;/PostalAddress&gt;       &lt;Contact&gt;         &lt;Name&gt;Ing. Martin Vician&lt;/Name&gt;         &lt;Email&gt;martin.vician@ilancer.eu&lt;/Email&gt;       &lt;/Contact&gt;     &lt;/SupplierParty&gt;     &lt;CustomerParty&gt;       &lt;PartyName&gt;Forsys a.s.&lt;/PartyName&gt;       &lt;CompanyTaxID&gt;2022683003&lt;/CompanyTaxID&gt;       &lt;CompanyVATID&gt;SK2022683003&lt;/CompanyVATID&gt;</pre>	

```

    <CompanyRegisterID>44232730</CompanyRegisterID>
  </CustomerParty>
  <NumberOfInvoiceLines xsi:nil="true" />
  <SingleInvoiceLine>
    <ItemName>Vedenie účtovníctva za 2Q 2013</ItemName>
    <PeriodFromDate xsi:nil="true" />
    <PeriodToDate xsi:nil="true" />
    <InvoicedQuantity>3</InvoicedQuantity>
    <UnitPriceTaxExclusiveAmount>200</UnitPriceTaxExclusiveAmount>
    <UnitPriceTaxInclusiveAmount>240</UnitPriceTaxInclusiveAmount>
    <UnitPriceTaxAmount>40</UnitPriceTaxAmount>
  </SingleInvoiceLine>
  <TaxCategorySummaries>
    <TaxCategorySummary>
      <ClassifiedTaxCategory>0.2</ClassifiedTaxCategory>
      <TaxExclusiveAmount>600</TaxExclusiveAmount>
      <TaxInclusiveAmount>720</TaxInclusiveAmount>
      <TaxAmount>120</TaxAmount>
      <AlreadyClaimedTaxExclusiveAmount>0</AlreadyClaimedTaxExclusiveAmount>
      <AlreadyClaimedTaxInclusiveAmount>0</AlreadyClaimedTaxInclusiveAmount>
      <AlreadyClaimedTaxAmount>0</AlreadyClaimedTaxAmount>
      <DifferenceTaxExclusiveAmount>600</DifferenceTaxExclusiveAmount>
      <DifferenceTaxInclusiveAmount>720</DifferenceTaxInclusiveAmount>
      <DifferenceTaxAmount>120</DifferenceTaxAmount>
    </TaxCategorySummary>
  </TaxCategorySummaries>
  <MonetarySummary>
    <TaxExclusiveAmount>600</TaxExclusiveAmount>
    <TaxInclusiveAmount>720</TaxInclusiveAmount>
    <TaxAmount>120</TaxAmount>
    <AlreadyClaimedTaxExclusiveAmount>0</AlreadyClaimedTaxExclusiveAmount>
    <AlreadyClaimedTaxInclusiveAmount>0</AlreadyClaimedTaxInclusiveAmount>
    <AlreadyClaimedTaxAmount>0</AlreadyClaimedTaxAmount>
    <DifferenceTaxExclusiveAmount>600</DifferenceTaxExclusiveAmount>
    <DifferenceTaxInclusiveAmount>720</DifferenceTaxInclusiveAmount>
    <DifferenceTaxAmount>120</DifferenceTaxAmount>
  </MonetarySummary>

```

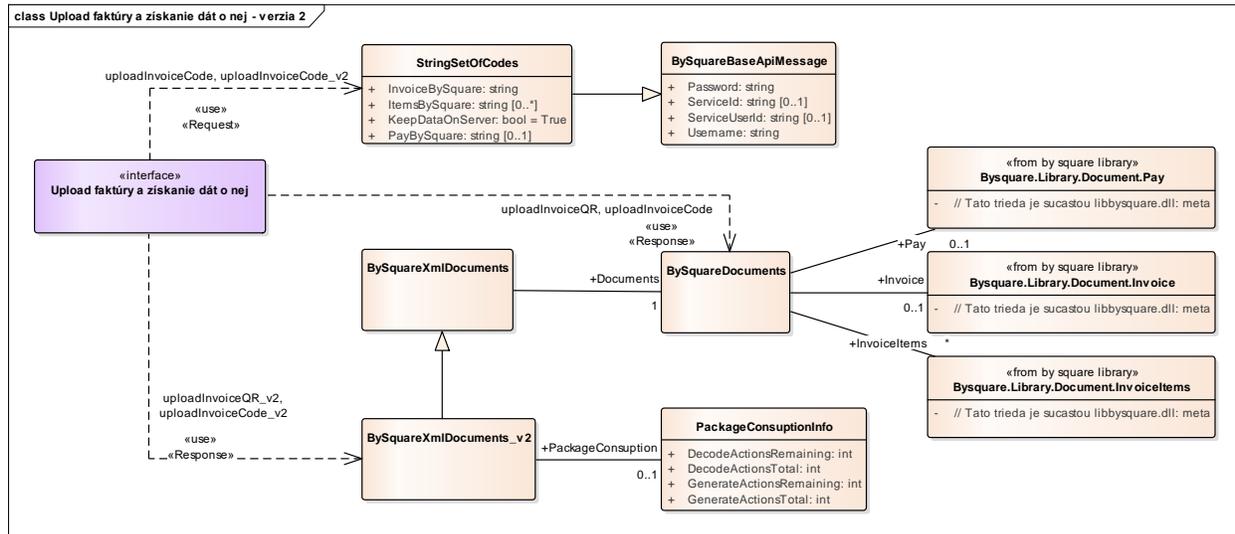
**OUTPUT - Version 2**

```

<BySquareXmlDocuments_v2 xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Documents>
    <Invoice xsi:type="Invoice" xmlns="http://www.bysquare.com/bysquare">
      ...
    </Invoice>
  </Documents>
  <PackageConsumption>
    <GenerateActionsTotal>100</GenerateActionsTotal>
    <GenerateActionsRemaining>100</GenerateActionsRemaining>
    <DecodeActionsTotal>20</DecodeActionsTotal>
    <DecodeActionsRemaining>9</DecodeActionsRemaining>
  </PackageConsumption>
</BySquareXmlDocuments_v2>

```

## 1.4 UPLOAD INVOICE AND GET DATA ABOUT IT - OPTION 2



This API interface service is used to upload invoices. The invoice is stored in the user's invoice repository. The service also returns recognized data from the uploaded invoice in a structured form.

Additional information on attributes:

<b>KeepDataOnServer</b>	Decides whether data are also stored on by square (TRUE) application servers or was only processed (FALSE)
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### 1.4.1 IMPLEMENTATION OF THE API

<b>TYPE</b>	POST
<b>CONTENT TYPE</b>	application/xml
<b>ADDRESS</b>	Version 1: <a href="https://app.bysquare.com/api/uploadInvoiceCode">https://app.bysquare.com/api/uploadInvoiceCode</a> Version 2: <a href="https://app.bysquare.com/api/uploadInvoiceCode_v2">https://app.bysquare.com/api/uploadInvoiceCode_v2</a>
<b>INPUT</b>	<pre>&lt;StringSetOfCodes xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"&gt;   &lt;Username&gt;test@test.test&lt;/Username&gt;   &lt;Password&gt;test@test.test&lt;/Password&gt;   &lt;KeepDataOnServer&gt;true&lt;/KeepDataOnServer&gt;   &lt;InvoiceBySquare&gt;2001G0804E3.... string code of Invoice&lt;/InvoiceBySquare&gt;   &lt;PayBySquare&gt;2001G0804E3.... string code of Pay&lt;/PayBySquare&gt;   &lt;ItemsBySquare&gt;     &lt;string&gt;       2001G0804E3.... string code of Item     &lt;/string&gt;   &lt;/ItemsBySquare&gt; &lt;/StringSetOfCodes&gt;</pre>
<b>OUTPUT - Version 1</b>	<pre>&lt;BySquareDocuments xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"&gt;   &lt;Invoice xsi:type="Invoice" xmlns="http://www.bysquare.com/bysquare"&gt;</pre>

```
<InvoiceID>2013019</InvoiceID>
<IssueDate>2013-05-13T00:00:00</IssueDate>
<TaxPointDate>2013-05-13T00:00:00</TaxPointDate>
<LocalCurrencyCode>EUR</LocalCurrencyCode>
<CurrRate xsi:nil="true" />
<ReferenceCurrRate xsi:nil="true" />
<SupplierParty>
  <PartyName>iLancer s.r.o.</PartyName>
  <CompanyTaxID>2023187133</CompanyTaxID>
  <CompanyVATID>SK2023187133</CompanyVATID>
  <CompanyRegisterID>45960119</CompanyRegisterID>
  <PostalAddress>
    <StreetName>Špitálska</StreetName>
    <BuildingNumber>10</BuildingNumber>
    <CityName>Bratislava</CityName>
    <PostalZone>81108</PostalZone>
    <Country>SVK</Country>
  </PostalAddress>
  <Contact>
    <Name>Ing. Martin Vician</Name>
    <EMail>martin.vician@ilancer.eu</EMail>
  </Contact>
</SupplierParty>
<CustomerParty>
  <PartyName>Forsys a.s.</PartyName>
  <CompanyTaxID>2022683003</CompanyTaxID>
  <CompanyVATID>SK2022683003</CompanyVATID>
  <CompanyRegisterID>44232730</CompanyRegisterID>
</CustomerParty>
<NumberOfInvoiceLines xsi:nil="true" />
<SingleInvoiceLine>
  <ItemName>Vedenie účtovníctva za 2Q 2013</ItemName>
  <PeriodFromDate xsi:nil="true" />
  <PeriodToDate xsi:nil="true" />
  <InvoicedQuantity>3</InvoicedQuantity>
  <UnitPriceTaxExclusiveAmount>200</UnitPriceTaxExclusiveAmount>
  <UnitPriceTaxInclusiveAmount>240</UnitPriceTaxInclusiveAmount>
  <UnitPriceTaxAmount>40</UnitPriceTaxAmount>
</SingleInvoiceLine>
<TaxCategorySummaries>
  <TaxCategorySummary>
    <ClassifiedTaxCategory>0.2</ClassifiedTaxCategory>
    <TaxExclusiveAmount>600</TaxExclusiveAmount>
    <TaxInclusiveAmount>720</TaxInclusiveAmount>
    <TaxAmount>120</TaxAmount>
    <AlreadyClaimedTaxExclusiveAmount>0</AlreadyClaimedTaxExclusiveAmount>
    <AlreadyClaimedTaxInclusiveAmount>0</AlreadyClaimedTaxInclusiveAmount>
    <AlreadyClaimedTaxAmount>0</AlreadyClaimedTaxAmount>
    <DifferenceTaxExclusiveAmount>600</DifferenceTaxExclusiveAmount>
    <DifferenceTaxInclusiveAmount>720</DifferenceTaxInclusiveAmount>
    <DifferenceTaxAmount>120</DifferenceTaxAmount>
  </TaxCategorySummary>
</TaxCategorySummaries>
<MonetarySummary>
  <TaxExclusiveAmount>600</TaxExclusiveAmount>
  <TaxInclusiveAmount>720</TaxInclusiveAmount>
  <TaxAmount>120</TaxAmount>
  <AlreadyClaimedTaxExclusiveAmount>0</AlreadyClaimedTaxExclusiveAmount>
  <AlreadyClaimedTaxInclusiveAmount>0</AlreadyClaimedTaxInclusiveAmount>
  <AlreadyClaimedTaxAmount>0</AlreadyClaimedTaxAmount>
</MonetarySummary>
```

```

<DifferenceTaxExclusiveAmount>600</DifferenceTaxExclusiveAmount>
<DifferenceTaxInclusiveAmount>720</DifferenceTaxInclusiveAmount>
<DifferenceTaxAmount>120</DifferenceTaxAmount>
<PayableRoundingAmount>0</PayableRoundingAmount>
<PaidDepositsAmount>0</PaidDepositsAmount>
<PayableAmount>720</PayableAmount>
  </MonetarySummary>
</Invoice>
</BySquareDocuments>

```

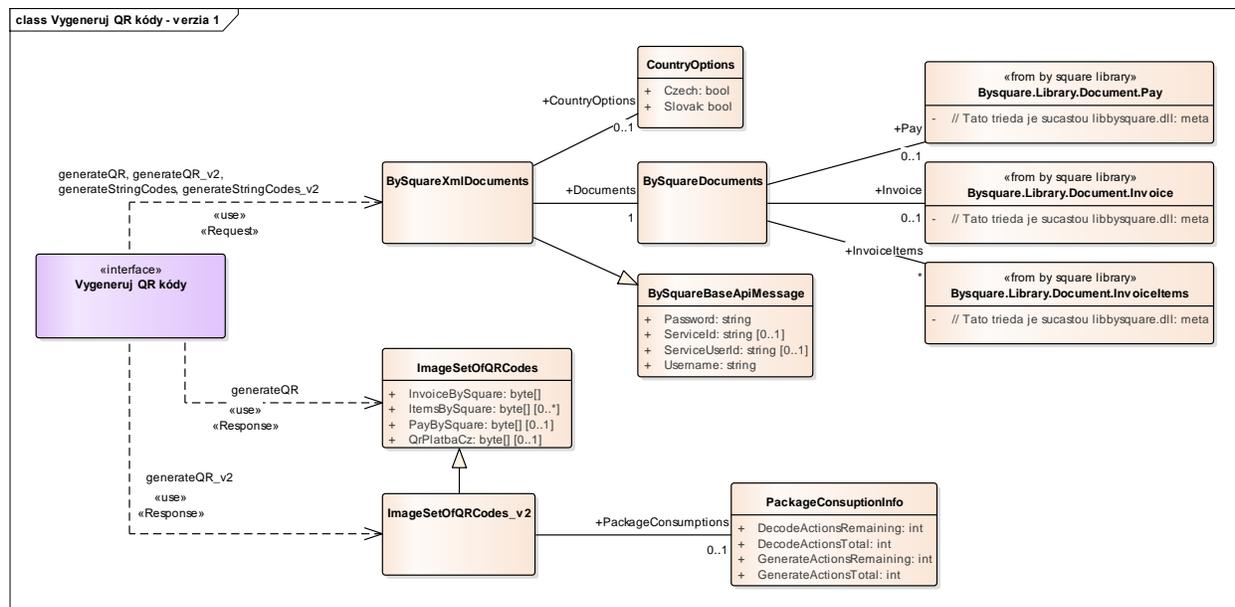
**OUTPUT - Version 2**

```

<BySquareXmlDocuments_v2 xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Documents>
    <Invoice xsi:type="Invoice" xmlns="http://www.bysquare.com/bysquare">
      ...
    </Invoice>
  </Documents>
  <PackageConsumption>
    <GenerateActionsTotal>100</GenerateActionsTotal>
    <GenerateActionsRemaining>100</GenerateActionsRemaining>
    <DecodeActionsTotal>20</DecodeActionsTotal>
    <DecodeActionsRemaining>9</DecodeActionsRemaining>
  </PackageConsumption>
</BySquareXmlDocuments_v2>

```

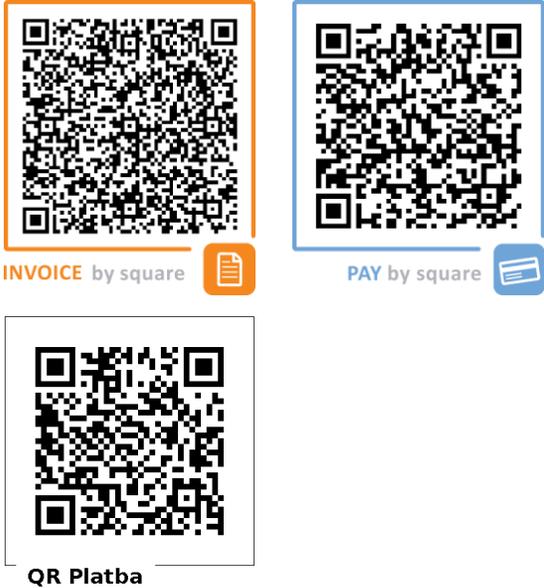
## 1.5 GENERATE QR CODES - VARIANT 1



This interface API service provides the ability to generate invoice QR codes based on the inbound invoice data.

### 1.5.1 IMPLEMENTATION OF THE API

TYPE	POST
------	------

CONTENT TYPE	application/xml
ADDRESS	Version 1: <a href="https://app.bysquare.com/api/generateQR">https://app.bysquare.com/api/generateQR</a> Version 2: <a href="https://app.bysquare.com/api/generateQR_v2">https://app.bysquare.com/api/generateQR_v2</a>
APPEARANCE OF OUTPUT	 <p>The image shows three QR codes. The top-left one is labeled 'INVOICE by square' with an orange border and a document icon. The top-right one is labeled 'PAY by square' with a blue border and a card icon. The bottom one is labeled 'QR Platba' with a black border.</p>
ALTERNATIVE ADDRESSES	Version 2 with output images for printing <a href="https://app.bysquare.com/api/generateQRPrint">https://app.bysquare.com/api/generateQRPrint</a>
PRINT OUTPUT APPEARANCE	 <p>The image shows the print output appearance. It features two QR codes. The top one is labeled 'INVOICE by square' with an orange border and a document icon. Below it are logos for Slovenská POŠTA, a mobile phone icon, and SKPAY. The bottom QR code is labeled 'PAY by square' with a blue border and a card icon. To the left of the bottom QR code, the text 'ZAPLATÍTE cez' is written vertically.</p>



QR Platba

## INPUT

```
<BySquareXmlDocuments xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Username>test@test.test</Username>
  <Password>test@test.test</Password>
  <CountryOptions>
    <Slovak>true</Slovak>
    <Czech>false</Czech>
  </CountryOptions>
  <Documents>
    <Invoice xsi:type="Invoice" xmlns="http://www.bysquare.com/bysquare">
      <InvoiceID>2013019</InvoiceID>
      <IssueDate>2013-05-13T00:00:00</IssueDate>
      <TaxPointDate>2013-05-13T00:00:00</TaxPointDate>
      <LocalCurrencyCode>EUR</LocalCurrencyCode>
      <CurrRate xsi:nil="true" />
      <ReferenceCurrRate xsi:nil="true" />
      <SupplierParty>
        <PartyName>iLancer s.r.o.</PartyName>
        <CompanyTaxID>2023187133</CompanyTaxID>
        <CompanyVATID>SK2023187133</CompanyVATID>
        <CompanyRegisterID>45960119</CompanyRegisterID>
        <PostalAddress>
          <StreetName>Špitálska</StreetName>
          <BuildingNumber>10</BuildingNumber>
          <CityName>Bratislava</CityName>
          <PostalZone>81108</PostalZone>
          <Country>SVK</Country>
        </PostalAddress>
        <Contact>
          <Name>Ing. Martin Vician</Name>
          <EMail>martin.vician@ilancer.eu</EMail>
        </Contact>
      </SupplierParty>
      <CustomerParty>
        <PartyName>Forsys a.s.</PartyName>
        <CompanyTaxID>2022683003</CompanyTaxID>
        <CompanyVATID>SK2022683003</CompanyVATID>
        <CompanyRegisterID>44232730</CompanyRegisterID>
      </CustomerParty>
      <NumberOfInvoiceLines xsi:nil="true" />
      <SingleInvoiceLine>
        <ItemName>Vedenie účtovníctva za 2Q 2013</ItemName>
        <PeriodFromDate xsi:nil="true" />
        <PeriodToDate xsi:nil="true" />
      </SingleInvoiceLine>
    </Invoice>
  </Documents>
</BySquareXmlDocuments>
```

```
<InvoicedQuantity>3</InvoicedQuantity>
<UnitPriceTaxExclusiveAmount>200</UnitPriceTaxExclusiveAmount>
<UnitPriceTaxInclusiveAmount>240</UnitPriceTaxInclusiveAmount>
<UnitPriceTaxAmount>40</UnitPriceTaxAmount>
</SingleInvoiceLine>
<TaxCategorySummaries>
  <TaxCategorySummary>
    <ClassifiedTaxCategory>0.2</ClassifiedTaxCategory>
    <TaxExclusiveAmount>600</TaxExclusiveAmount>
    <TaxInclusiveAmount>720</TaxInclusiveAmount>
    <TaxAmount>120</TaxAmount>
    <AlreadyClaimedTaxExclusiveAmount>0</AlreadyClaimedTaxExclusiveAmount>
    <AlreadyClaimedTaxInclusiveAmount>0</AlreadyClaimedTaxInclusiveAmount>
    <AlreadyClaimedTaxAmount>0</AlreadyClaimedTaxAmount>
    <DifferenceTaxExclusiveAmount>600</DifferenceTaxExclusiveAmount>
    <DifferenceTaxInclusiveAmount>720</DifferenceTaxInclusiveAmount>
    <DifferenceTaxAmount>120</DifferenceTaxAmount>
  </TaxCategorySummary>
</TaxCategorySummaries>
<MonetarySummary>
  <TaxExclusiveAmount>600</TaxExclusiveAmount>
  <TaxInclusiveAmount>720</TaxInclusiveAmount>
  <TaxAmount>120</TaxAmount>
  <AlreadyClaimedTaxExclusiveAmount>0</AlreadyClaimedTaxExclusiveAmount>
  <AlreadyClaimedTaxInclusiveAmount>0</AlreadyClaimedTaxInclusiveAmount>
  <AlreadyClaimedTaxAmount>0</AlreadyClaimedTaxAmount>
  <DifferenceTaxExclusiveAmount>600</DifferenceTaxExclusiveAmount>
  <DifferenceTaxInclusiveAmount>720</DifferenceTaxInclusiveAmount>
  <DifferenceTaxAmount>120</DifferenceTaxAmount>
  <PayableRoundingAmount>0</PayableRoundingAmount>
  <PaidDepositsAmount>0</PaidDepositsAmount>
  <PayableAmount>720</PayableAmount>
</MonetarySummary>
</Invoice>
<Pay xsi:type="Pay" xmlns="http://www.bysquare.com/bysquare">
  <Payments>
    <Payment>
      <PaymentOptions>paymentorder</PaymentOptions>
      <Amount xsi:nil="true" />
      <CurrencyCode>EUR</CurrencyCode>
      <PaymentDueDate xsi:nil="true" />
      <BankAccounts>
        <BankAccount>
          <IBAN>AA0012345678901234567890</IBAN>
          <BIC>AAAABB11</BIC>
        </BankAccount>
      </BankAccounts>
      <VariableSymbol>123457890</VariableSymbol>
      <ConstantSymbol>1234</ConstantSymbol>
      <SpecificSymbol>123457890</SpecificSymbol>
    </Payment>
  </Payments>
</Pay>
<InvoiceItems xsi:type="InvoiceItems" xmlns="http://www.bysquare.com/bysquare">
  <InvoiceID>1</InvoiceID>
  <FirstInvoiceLineID>1</FirstInvoiceLineID>
  <InvoiceLines>
    <Invoiceline>
      <ItemName>Name</ItemName>
      <PeriodFromDate>2016-03-02T00:00:00</PeriodFromDate>
```

```

        <PeriodToDate>2016-03-04T00:00:00</PeriodToDate>
        <InvoicedQuantity>1</InvoicedQuantity>
        <UnitPriceTaxExclusiveAmount>1</UnitPriceTaxExclusiveAmount>
        <UnitPriceTaxInclusiveAmount>2</UnitPriceTaxInclusiveAmount>
        <UnitPriceTaxAmount>1</UnitPriceTaxAmount>
        <LineTaxExclusiveAmount>1</LineTaxExclusiveAmount>
        <LineTaxInclusiveAmount>2</LineTaxInclusiveAmount>
        <LineTaxAmount>1</LineTaxAmount>
        <ClassifiedTaxCategory>0.5</ClassifiedTaxCategory>
    </InvoiceLine>
</InvoiceLines>
</InvoiceItems>
<InvoiceItems xsi:type="InvoiceItems" xmlns="http://www.bysquare.com/bysquare">
    <InvoiceID>2</InvoiceID>
    <FirstInvoiceLineID>2</FirstInvoiceLineID>
    <InvoiceLines>
        <InvoiceLine>
            <ItemName>Name2</ItemName>
            <PeriodFromDate>2016-03-02T00:00:00</PeriodFromDate>
            <PeriodToDate>2016-03-04T00:00:00</PeriodToDate>
            <InvoicedQuantity>1</InvoicedQuantity>
            <UnitPriceTaxExclusiveAmount>2</UnitPriceTaxExclusiveAmount>
            <UnitPriceTaxInclusiveAmount>3</UnitPriceTaxInclusiveAmount>
            <UnitPriceTaxAmount>1</UnitPriceTaxAmount>
            <LineTaxExclusiveAmount>2</LineTaxExclusiveAmount>
            <LineTaxInclusiveAmount>3</LineTaxInclusiveAmount>
            <LineTaxAmount>1</LineTaxAmount>
            <ClassifiedTaxCategory>0.5</ClassifiedTaxCategory>
        </InvoiceLine>
    </InvoiceLines>
</InvoiceItems>
</Documents>
</BySquareXmlDocuments>

```

**OUTPUT - Version 1**

```

<ImageSetOfCodes xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <InvoiceBySquare>2001G0804E3....bytes of Invoice png image as Base64</InvoiceBySquare>
    <PayBySquare>2001G0804E3.... bytes of Pay png image as Base64 </PayBySquare>
    <QrPlatbaCz>2001G0804E3.... bytes of Pay png image as Base64 </QrPlatbaCz>
    <ItemsBySquare>
        <base64Binary>
            2001G0804E3.... bytes of Item png image as Base64
        </base64Binary>
    </ItemsBySquare>
</ImageSetOfCodes>

```

**OUTPUT - Version 2**

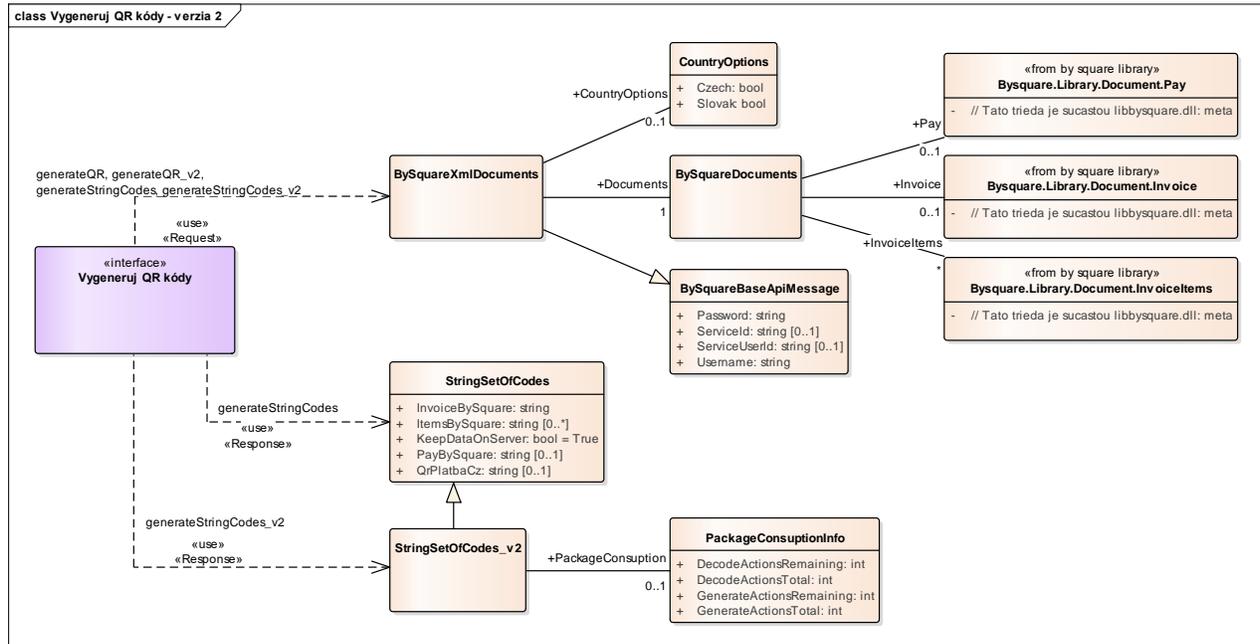
```

<ImageSetOfQRCodes_v2 xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <InvoiceBySquare>2001G0804E3....bytes of Invoice png image as Base64</InvoiceBySquare>
    <PayBySquare>2001G0804E3.... bytes of Pay png image as Base64</PayBySquare>
    <QrPlatbaCz>2001G0804E3.... bytes of Pay png image as Base64 </QrPlatbaCz>
    <ItemsBySquare>
        <base64Binary>
            2001G0804E3.... bytes of Item png image as Base64
        </base64Binary>
    </ItemsBySquare>
    <PackageConsumption>
        <GenerateActionsTotal>100</GenerateActionsTotal>
    </PackageConsumption>
</ImageSetOfQRCodes_v2>

```

```
<GenerateActionsRemaining>100</GenerateActionsRemaining>
<DecodeActionsTotal>20</DecodeActionsTotal>
<DecodeActionsRemaining>9</DecodeActionsRemaining>
</PackageConsumption>
</ImageSetOfQRcodes_v2>
```

## 1.6 GENERATE QR CODES - VARIANT 2



This API interface service provides the ability to generate QR code's content strings based on invoice input data.

### 1.6.1 IMPLEMENTATION OF THE API

TYPE	POST
CONTENT TYPE	application/xml
ADDRESS	Version 1: <a href="https://app.bysquare.com/api/generateStringCodes">https://app.bysquare.com/api/generateStringCodes</a> Version 2: <a href="https://app.bysquare.com/api/generateStringCodes_v2">https://app.bysquare.com/api/generateStringCodes_v2</a>
INPUT	<pre>&lt;BySquareXmlDocuments xmlns:xsd="http://www.w3.org/2001/XMLSchema"     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"&gt;   &lt;Username&gt;test@test.test&lt;/Username&gt;   &lt;Password&gt;test@test.test&lt;/Password&gt;   &lt;CountryOptions&gt;     &lt;Slovak&gt;true&lt;/Slovak&gt;     &lt;Czech&gt;false&lt;/Czech&gt;   &lt;/CountryOptions&gt;   &lt;Documents&gt;     &lt;Invoice xsi:type="Invoice" xmlns="http://www.bysquare.com/bysquare"&gt;       &lt;InvoiceID&gt;2013019&lt;/InvoiceID&gt;       &lt;IssueDate&gt;2013-05-13T00:00:00&lt;/IssueDate&gt;       &lt;TaxPointDate&gt;2013-05-13T00:00:00&lt;/TaxPointDate&gt;     &lt;/Invoice&gt;   &lt;/Documents&gt; &lt;/BySquareXmlDocuments&gt;</pre>

```
<LocalCurrencyCode>EUR</LocalCurrencyCode>
<CurrRate xsi:nil="true" />
<ReferenceCurrRate xsi:nil="true" />
<SupplierParty>
  <PartyName>iLancer s.r.o.</PartyName>
  <CompanyTaxID>2023187133</CompanyTaxID>
  <CompanyVATID>SK2023187133</CompanyVATID>
  <CompanyRegisterID>45960119</CompanyRegisterID>
  <PostalAddress>
    <StreetName>Špitálska</StreetName>
    <BuildingNumber>10</BuildingNumber>
    <CityName>Bratislava</CityName>
    <PostalZone>81108</PostalZone>
    <Country>SVK</Country>
  </PostalAddress>
  <Contact>
    <Name>Ing. Martin Vician</Name>
    <EMail>martin.vician@ilancer.eu</EMail>
  </Contact>
</SupplierParty>
<CustomerParty>
  <PartyName>Forsys a.s.</PartyName>
  <CompanyTaxID>2022683003</CompanyTaxID>
  <CompanyVATID>SK2022683003</CompanyVATID>
  <CompanyRegisterID>44232730</CompanyRegisterID>
</CustomerParty>
<NumberOfInvoiceLines xsi:nil="true" />
<SingleInvoiceLine>
  <ItemName>Vedenie účtovníctva za 2Q 2013</ItemName>
  <PeriodFromDate xsi:nil="true" />
  <PeriodToDate xsi:nil="true" />
  <InvoicedQuantity>3</InvoicedQuantity>
  <UnitPriceTaxExclusiveAmount>200</UnitPriceTaxExclusiveAmount>
  <UnitPriceTaxInclusiveAmount>240</UnitPriceTaxInclusiveAmount>
  <UnitPriceTaxAmount>40</UnitPriceTaxAmount>
</SingleInvoiceLine>
<TaxCategorySummaries>
  <TaxCategorySummary>
    <ClassifiedTaxCategory>0.2</ClassifiedTaxCategory>
    <TaxExclusiveAmount>600</TaxExclusiveAmount>
    <TaxInclusiveAmount>720</TaxInclusiveAmount>
    <TaxAmount>120</TaxAmount>
    <AlreadyClaimedTaxExclusiveAmount>0</AlreadyClaimedTaxExclusiveAmount>
    <AlreadyClaimedTaxInclusiveAmount>0</AlreadyClaimedTaxInclusiveAmount>
    <AlreadyClaimedTaxAmount>0</AlreadyClaimedTaxAmount>
    <DifferenceTaxExclusiveAmount>600</DifferenceTaxExclusiveAmount>
    <DifferenceTaxInclusiveAmount>720</DifferenceTaxInclusiveAmount>
    <DifferenceTaxAmount>120</DifferenceTaxAmount>
  </TaxCategorySummary>
</TaxCategorySummaries>
<MonetarySummary>
  <TaxExclusiveAmount>600</TaxExclusiveAmount>
  <TaxInclusiveAmount>720</TaxInclusiveAmount>
  <TaxAmount>120</TaxAmount>
  <AlreadyClaimedTaxExclusiveAmount>0</AlreadyClaimedTaxExclusiveAmount>
  <AlreadyClaimedTaxInclusiveAmount>0</AlreadyClaimedTaxInclusiveAmount>
  <AlreadyClaimedTaxAmount>0</AlreadyClaimedTaxAmount>
  <DifferenceTaxExclusiveAmount>600</DifferenceTaxExclusiveAmount>
  <DifferenceTaxInclusiveAmount>720</DifferenceTaxInclusiveAmount>
  <DifferenceTaxAmount>120</DifferenceTaxAmount>
</MonetarySummary>
```

```
<PayableRoundingAmount>0</PayableRoundingAmount>
<PaidDepositsAmount>0</PaidDepositsAmount>
<PayableAmount>720</PayableAmount>
</MonetarySummary>
</Invoice>
<Pay xsi:type="Pay" xmlns="http://www.bysquare.com/bysquare">
  <Payments>
    <Payment>
      <PaymentOptions>paymentorder</PaymentOptions>
      <Amount xsi:nil="true" />
      <CurrencyCode>EUR</CurrencyCode>
      <PaymentDueDate xsi:nil="true" />
      <BankAccounts>
        <BankAccount>
          <IBAN>AA0012345678901234567890</IBAN>
          <BIC>AAAABB11</BIC>
        </BankAccount>
      </BankAccounts>
      <VariableSymbol>123457890</VariableSymbol>
      <ConstantSymbol>1234</ConstantSymbol>
      <SpecificSymbol>123457890</SpecificSymbol>
    </Payment>
  </Payments>
</Pay>
<InvoiceItems xsi:type="InvoiceItems" xmlns="http://www.bysquare.com/bysquare">
  <InvoiceID>1</InvoiceID>
  <FirstInvoiceLineID>1</FirstInvoiceLineID>
  <InvoiceLines>
    <InvoiceLine>
      <ItemName>Name</ItemName>
      <PeriodFromDate>2016-03-02T00:00:00</PeriodFromDate>
      <PeriodToDate>2016-03-04T00:00:00</PeriodToDate>
      <InvoicedQuantity>1</InvoicedQuantity>
      <UnitPriceTaxExclusiveAmount>1</UnitPriceTaxExclusiveAmount>
      <UnitPriceTaxInclusiveAmount>2</UnitPriceTaxInclusiveAmount>
      <UnitPriceTaxAmount>1</UnitPriceTaxAmount>
      <LineTaxExclusiveAmount>1</LineTaxExclusiveAmount>
      <LineTaxInclusiveAmount>2</LineTaxInclusiveAmount>
      <LineTaxAmount>1</LineTaxAmount>
      <ClassifiedTaxCategory>0.5</ClassifiedTaxCategory>
    </InvoiceLine>
  </InvoiceLines>
</InvoiceItems>
<InvoiceItems xsi:type="InvoiceItems" xmlns="http://www.bysquare.com/bysquare">
  <InvoiceID>2</InvoiceID>
  <FirstInvoiceLineID>2</FirstInvoiceLineID>
  <InvoiceLines>
    <InvoiceLine>
      <ItemName>Name2</ItemName>
      <PeriodFromDate>2016-03-02T00:00:00</PeriodFromDate>
      <PeriodToDate>2016-03-04T00:00:00</PeriodToDate>
      <InvoicedQuantity>1</InvoicedQuantity>
      <UnitPriceTaxExclusiveAmount>2</UnitPriceTaxExclusiveAmount>
      <UnitPriceTaxInclusiveAmount>3</UnitPriceTaxInclusiveAmount>
      <UnitPriceTaxAmount>1</UnitPriceTaxAmount>
      <LineTaxExclusiveAmount>2</LineTaxExclusiveAmount>
      <LineTaxInclusiveAmount>3</LineTaxInclusiveAmount>
      <LineTaxAmount>1</LineTaxAmount>
      <ClassifiedTaxCategory>0.5</ClassifiedTaxCategory>
    </InvoiceLine>
  </InvoiceLines>
</InvoiceItems>
```

<pre>                 &lt;/InvoiceLines&gt;             &lt;/InvoiceItems&gt;         &lt;/Documents&gt;     &lt;/BySquareXmlDocuments&gt; </pre>
<b>OUTPUT - Version 1</b>
<pre> &lt;StringSetOfCodes xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"&gt;     &lt;InvoiceBySquare&gt;2001G0804E3....string code of Invoice&lt;/InvoiceBySquare&gt;     &lt;PayBySquare&gt;2001G0804E3.... string code of Pay&lt;/PayBySquare&gt;     &lt;QrPlatbaCz&gt;2001G0804E3.... string code of Pay Base64 &lt;/QrPlatbaCz&gt;     &lt;ItemsBySquare&gt;         &lt;string&gt;             2001G0804E3.... string code of Item         &lt;/string&gt;     &lt;/ItemsBySquare&gt; &lt;/StringSetOfCodes&gt; </pre>
<b>OUTPUT - Version 2</b>
<pre> &lt;StringSetOfCodes_v2 xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"&gt;     &lt;InvoiceBySquare&gt;2001G0804E3....string code of Invoice&lt;/InvoiceBySquare&gt;     &lt;PayBySquare&gt;2001G0804E3.... string code of Pay&lt;/PayBySquare&gt;     &lt;QrPlatbaCz&gt;2001G0804E3.... string code of Pay Base64 &lt;/QrPlatbaCz&gt;     &lt;ItemsBySquare&gt;         &lt;string&gt;             2001G0804E3.... string code of Item         &lt;/string&gt;     &lt;/ItemsBySquare&gt;     &lt;PackageConsumption&gt;         &lt;GenerateActionsTotal&gt;100&lt;/GenerateActionsTotal&gt;         &lt;GenerateActionsRemaining&gt;100&lt;/GenerateActionsRemaining&gt;         &lt;DecodeActionsTotal&gt;20&lt;/DecodeActionsTotal&gt;         &lt;DecodeActionsRemaining&gt;9&lt;/DecodeActionsRemaining&gt;     &lt;/PackageConsumption&gt; &lt;/StringSetOfCodes_v2&gt; </pre>

## 1.7 CHECK YOUR SIGN-IN INFORMATIONS

The service checks the specified user data and returns client detail when data are correct.

<b>TYPE</b>	POST
<b>CONTENT TYPE</b>	text/xml
<b>ADDRESS</b>	https://app.bysquare.com/api/CheckLoginData
<b>INPUT</b>	<pre> &lt;BySquareCredentials&gt;     &lt;Username&gt;test@test.test&lt;/Username&gt;     &lt;Password&gt;test@test.test&lt;/Password&gt; &lt;/BySquareCredentials&gt; </pre>
<b>OUTPUT</b>	<pre> &lt;BySquareUserData xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"&gt;     &lt;Username&gt;test@test.test&lt;/Username&gt;     &lt;IsLoginDataValid&gt;true&lt;/IsLoginDataValid&gt;     &lt;MenoKontaktnejOsoby&gt;kontakt&lt;/MenoKontaktnejOsoby&gt; </pre>

```
<Telefon>tel</Telefon>  
</BySquareUserData>
```

## 2 ERROR STATES

The application has defined individual data structure for output data, for each method. Error messages in this structure are not included because a different data structure is used to return the error state informations.

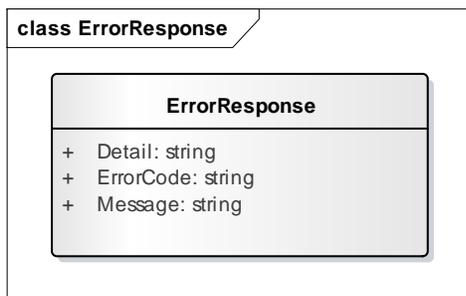
The API interface client can distinguish a successful call from an error by the returned HTTP code. In the event of a successful call, code 200 is returned.

In the event of an error, one of the following codes may return:

- 400 – In the application occurred error, which detail and description are sent to the client in response. ErrorResponse structure that is described below is returned.
- 401 - The username or password was not correct or the user is blocked.
- 500 – An unknown error has occurred, contact the system operator.

### 2.1 ERROR MESSAGE STRUCTURE

In the case of an error, http code 400 returns the ErrorResponse API structure according to the following diagram.



The Message and Detail fields can acquire any English-language text message that describes the error that has occurred.

The ErrorCode field contains the error code. The error code uniquely identifies what error has occurred, and the API client can decide how to respond in the case of this error.

The system can currently return one of the following values:

- E300 – Incorrect input. The Message and Detail information is the information that the field fields on the input are not filled in correctly.
- E601 - The logged-on user package is exhausted and the requested action cannot be performed. To continue using bysquare services the user need to purchase a larger package of services.
- E999 - Unspecified error.