COLLECTIONS PRODUCTS

XML Online Collection

Version 1.8 -April / 2018

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Introduction

The purpose of this manual is to guide clients of Banco Santander, regarding the specifications necessary for exchanging information of the Registered Collection Portfolio, via XML protocol.

Conditions for Information Exchange

In order to participate in exchanging information of collection with Banco Santander, the client must generate the payment slip data through XML (Extended Markup Language) according to the technical specifications contained in this manual

A tag to each title information within the value tag should be sent.

Online Title Entry

In order to register tiles online in collection at Banco Santander, the client must send a message through XML.

Probe for Title Query

Used by accredited client to confirm if the title has been registered and/or to obtain title information to issue the payment slip through XML. The Probe could be performed on D0 and D+1 and it is valid only to register tiles through XML.

Digital Certificate

Digital certificate purchased by the client, being required for the transmission of information under production and/or test.
The certificates are designed to ensure the secure exchange of information between the Bank and the Client.
Prior to joining, the client should contact the Bank for validation thereof.

Title

The Bank, through transactions, will inform the barcode and typeful line for inclusion in the payment slip to be formatted by the client.

Call URL

URL of the page or service of the Beneficiary that will be used to exchange data with the Bank.

    a)   DLB-Ticket (solicitar o Ticket de Segurança):

https://ymbdlb.santander.com.br/dl-ticket-services/TicketEndpointService

In transaction it should be used the endpoint do DLB (url above) to generate Ticket and after it should be used in YMB service (url below) sending ticket value generated.

b)	YMB-Cobrança:

https://ymbcash.santander.com.br/ymbsrv/CobrancaV2EndpointService

Ps.: In program code developed is necessary to connect using DLB-Ticket url directing the path where private key is installed on the client server (with password).

Additional Information

Our number - number adopted by the Bank to identify the Title

According to the option of the responsible for numbering (Bank, Client or both):

If the responsible for numbering is the Bank: The Client should not inform. In this case the Bank system will register an sequencial number without DV.

If the responsible for numbering is the Client: The Client should inform numerical value. In this case it should be informed number with DV (see bar code layout).

If the responsible for numbering are both: If completed by the Client, they should inform numerical value and following rule above.

Observe instructions described in Note No. 7.

Your number - Number adopted and controlled by the client to identify the Title

Optional field, if informed in the registration message, will be recorded in the collection system and informed in return file upon settlement of the ss for the Payer´s identification by the Beneficiary.

Operation of XML Online Collection - Titles Entry
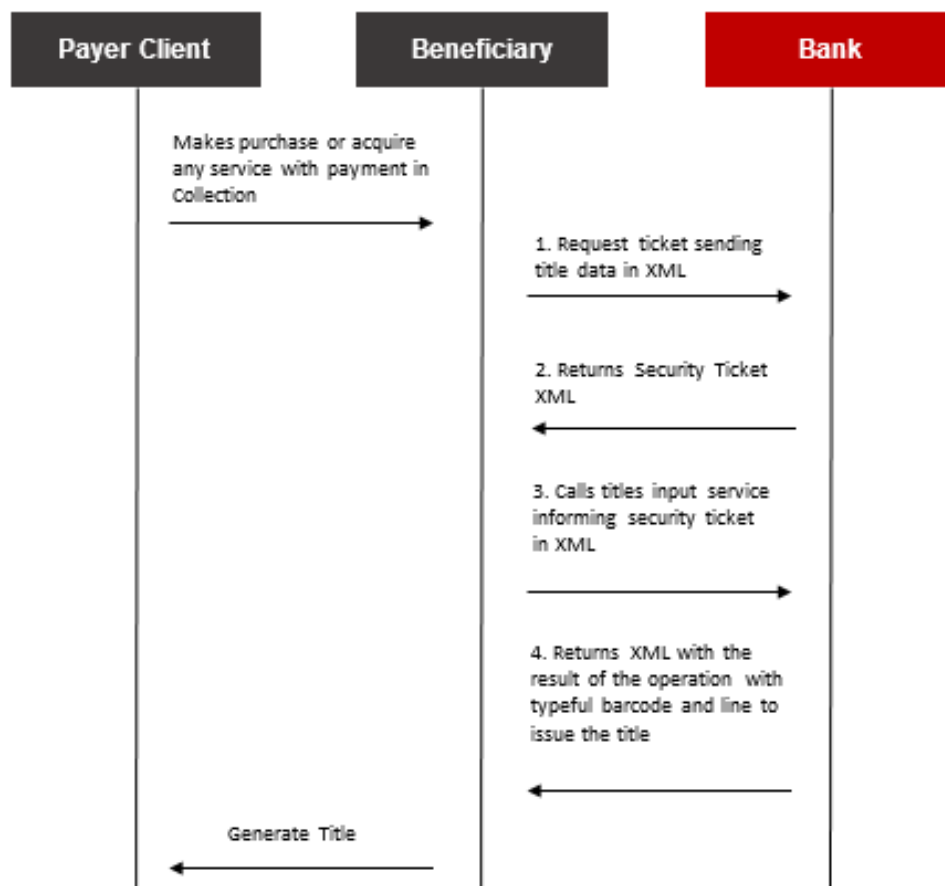
Data Formatting in XML - Titles Entry

1. Call to System for Request of the Safety Ticket

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:impl="http://impl.webservice.dl.app.bsbr.altec.com/">
<soapenv:Header/>
 <soapenv:Body>
 <impl:create>
 <TicketRequest>
```

Obs.: ** URLs are under definition. They should be acquired at the time of deployment
```
<dados>
        <entry>
                <key>CONVENIO.COD-BANCO</key>
                <value>0033</value>
        </entry>
        <entry>
                <key>CONVENIO.COD-CONVENIO</key>
                <value>123456789</value>
        </entry>

        <entry>
                <key>PAGADOR.TP-DOC</key>
                <value>99</value>
        </entry>
        <entry>
                <key>PAGADOR.NUM-DOC</key>
                <value>999999999999999</value>
        </entry>
        <entry>
                <key>PAGADOR.NOME</key>
                <value>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</value>
        </entry>
        <entry>
                <key>PAGADOR.ENDER</key>
                <value>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</value>
        </entry>
        <entry>
                <key>PAGADOR.BAIRRO</key>
                <value>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</value>
        </entry>
        <entry>
                <key>PAGADOR.CIDADE</key>
                <value>xxxxxxxxxxxxxxxxxxxx</value>
        </entry>
        <entry>
                <key>PAGADOR.UF</key>
                <value>xx</value>
        </entry>
        <entry>
                <key>PAGADOR.CEP</key>
                <value>99999999</value>
        </entry>
        <entry>
                <key>TITULO.NOSSO-NUMERO</key>
                <value>9999999999999</value>
        </entry>
        <entry>
                <key>TITULO.SEU-NUMERO </key>
                <value>xxxxxxxxxxxxxxx</value>
```

```
</entry>
<entry>
        <key>TITULO.DT-VENCTO</key>
        <value>ddmmaaaa</value>
</entry>

<entry>
        <key>TITULO.DT-EMISSAO</key>
        <value>ddmmaaaa</value>
</entry>
 <entry>
        <key>TITULO.ESPECIE</key>
        <value>xx</value>
</entry>
<entry>
        <key>TITULO.VL-NOMINAL</key>
        <value>999999999999999</value>
</entry>
<entry>
        <key>TITULO.PC-MULTA</key>
        <value>99999</value>
</entry>
<entry>
        <key>TITULO.QT-DIAS-MULTA</key>
        <value>99</value>
</entry>
<entry>
        <key>TITULO.PC-JURO</key>
        <value>99999</value>
</entry>
<entry>
        <key>TITULO.TP-DESC</key>
        <value>9</value>
</entry>
<entry>
        <key>TITULO.VL-DESC</key>
        <value>999999999999999</value>
</entry>
<entry>
        <key>TITULO.DT-LIMI-DESC</key>
        <value>ddmmaaaa</value>
</entry>
<entry>
        <key>TITULO.VL-ABATIMENTO</key>
        <value>999999999999999</value>
</entry>
<entry>
        <key>TITULO.TP-PROTESTO</key>
        <value>9</value>
</entry>
<entry>
        <key>TITULO.QT-DIAS-PROTESTO</key>
        <value>99</value>
</entry>
<entry>
        <key>TITULO.QT-DIAS-BAIXA</key>
        <value>99</value>
</entry>
<entry>
<key>TITULO.TP-PAGAMENTO</key>
        <value>9</value>
</entry>
```

```xml
<entry>
        <key>TITULO.QT-PARCIAIS</key>
        <value>99</value>
</entry>
<entry>
        <key>TITULO.TP-VALOR</key>
        <value>9</value>
</entry>
<entry>
        <key>TITULO.VL-PERC-MINIMO</key>
        <value>99999999999999999</value>
</entry>
<entry>
        <key>TITULO.VL-PERC-MAXIMO</key>
        <value>99999999999999999</value>
</entry>
<entry>
        <key>MENSAGEM</key>
        <value>
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
...
...
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx

        </value>
    </entry>
</dados>

<expiracao>100</expiracao>
<sistema>YMB</sistema>
</TicketRequest>
</impl:create>
</soapenv:Body>
</soapenv:Envelope>
```

2. Return of System on the request of the Safety Ticket:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Body>
<dlwmin:createResponse
xmlns:dlwmin="http://impl.webservice.dl.app.bsbr.altec.com/">
<TicketResponse>
<retCode>0</retCode>
<ticket>cfslcN5/EJuS3WSZIMnUp6P2pllnSra78ABGSocUKwpZd2TmKoKknBIWVjALtRC9bfa
8CoKU7DBKD8dMhYWyv7i+VSGqnjGq8Lg99U1EzdrItIALgPnFm6LpsIFThCRZ</ticket>
</TicketResponse>
</dlwmin:createResponse>
</soapenv:Body>
</soapenv:Envelope>
```

Obs.:

a) The above information in <ticket> </ticket> is an example of code informed by the Safety System;
b) In the transaction, the safety ticket information to be used for message authentication with the safety system, being unique per transaction and with no standardization;
c) The following are the error codes in the Ticket validation.

retCode	Meaning
0	Ticket validated ok
1	Error, invalid input data
2	Cryptography internal error
3	Error, Ticket previously used
4	Error, Ticket generated to another system
5	Error, Ticket expired
6	Internal error (data)
7	Internal error (timestamp)

3. Call to System for Title Inclusion

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:impl="http://impl.webservice.ymb.app.bsbr.altec.com/">
<soapenv:Header/>
<soapenv:Body>
<impl:registraTitulo>
<dto>
<dtNsu>ddmmaaaa<</dtNsu>
<estacao>xxxx</estacao>
<nsu>xxxxxxxxxxxxxxxxxxxxx</nsu>
<ticket>cfslcN5/EJuS3WSZIMnUp6P2pllnSra78ABGSocUKwpZd2TmKoKknBIWVjALtRC9bfa
8CoKU7DBKD8dMhYWyv7i+VSGqnjGq8Lg99U1EzdrItIALgPnFm6LpsIFThCRZ</ticket>
<tpAmbiente>x</tpAmbiente>
</dto>
</impl:registraTitulo>
</soapenv:Body>
</soapenv:Envelope>
```

Obs.: In <ticket> </ticket> should have the same information of the returned ticket in the ticket request process.

4. Return of System on Inclusion Title Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Body>
<dlwmin:registraTituloResponse
xmlns:dlwmin="http://impl.webservice.ymb.app.bsbr.altec.com/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<return xmlns:ns2="http://impl.webservice.ymb.app.bsbr.altec.com/">
<nsu>xxxxxxxxxxxxxxxxxxxx</nsu>
<dtNsu>ddmmaaaa</dtNsu>
<tpAmbiente>x</tpAmbiente>
<estacao>xxxx</estacao>
<situacao>xx</situacao>
<descricaoErro>
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
</descricaoErro>
<convenio>
<codBanco>0033</codBanco>
<codConv>123456789</codConv>
</convenio>
<pagador>
<tpDoc>99</tpDoc>
<numDoc>999999999999999</numDoc>
<nome>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</nome>
<ender>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</ender>
<bairro>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</bairro>
<cidade>xxxxxxxxxxxxxxxxxxxx</cidade>
<uf>xx</uf>
<cep>99999999</cep>
</pagador>
<titulo>
<cdBarra>99999999999999999999999999999999999999999999</cdBarra>
<linDig>999999999999999999999999999999999999999999999999</linDig>
<dtEntr>ddmmaaaa</dtEntr>
<aceito>x</aceito>
<nossoNumero>9999999999999</nossoNumero>
<seuNumero>xxxxxxxxxxxxxxx</seuNumero>
<dtVencto>ddmmaaaa</dtVencto>
<dtEmissao>ddmmaaaa</dtEmissao>
<especie>xx</especie>
<vlNominal>999999999999999</vlNominal>
<pcMulta>99999</pcMulta>
<qtDiasMulta>99</qtDiasMulta>
<pcJuro>99999</pcJuro>
<tpDesc>9</tpDesc>
```

```
<vlDesc>999999999999999</vlDesc>
<dtLimiDesc>ddmmaaaa</dtLimiDesc>
<vlAbatimento>999999999999999</vlAbatimento>
<tpProtesto>9</tpProtesto>
<qtDiasProtesto>99</qtDiasProtesto>
<qtDiasBaixa>99</qtDiasBaixa>
<tipoPagto>9</tipoPagto>
<qtdParciais>99</qtdParciais>
<tipoValor>9</tipoValor>
<valorMinimo>9999999999999999</valorMinimo>
<valorMaximo>9999999999999999</valorMaximo>
<mensagem>
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
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xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
...
...
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
</mensagem>
</titulo>
</return>
</dlwmin:registraTituloResponse>
</soapenv:Body>
</soapenv:Envelope>
```
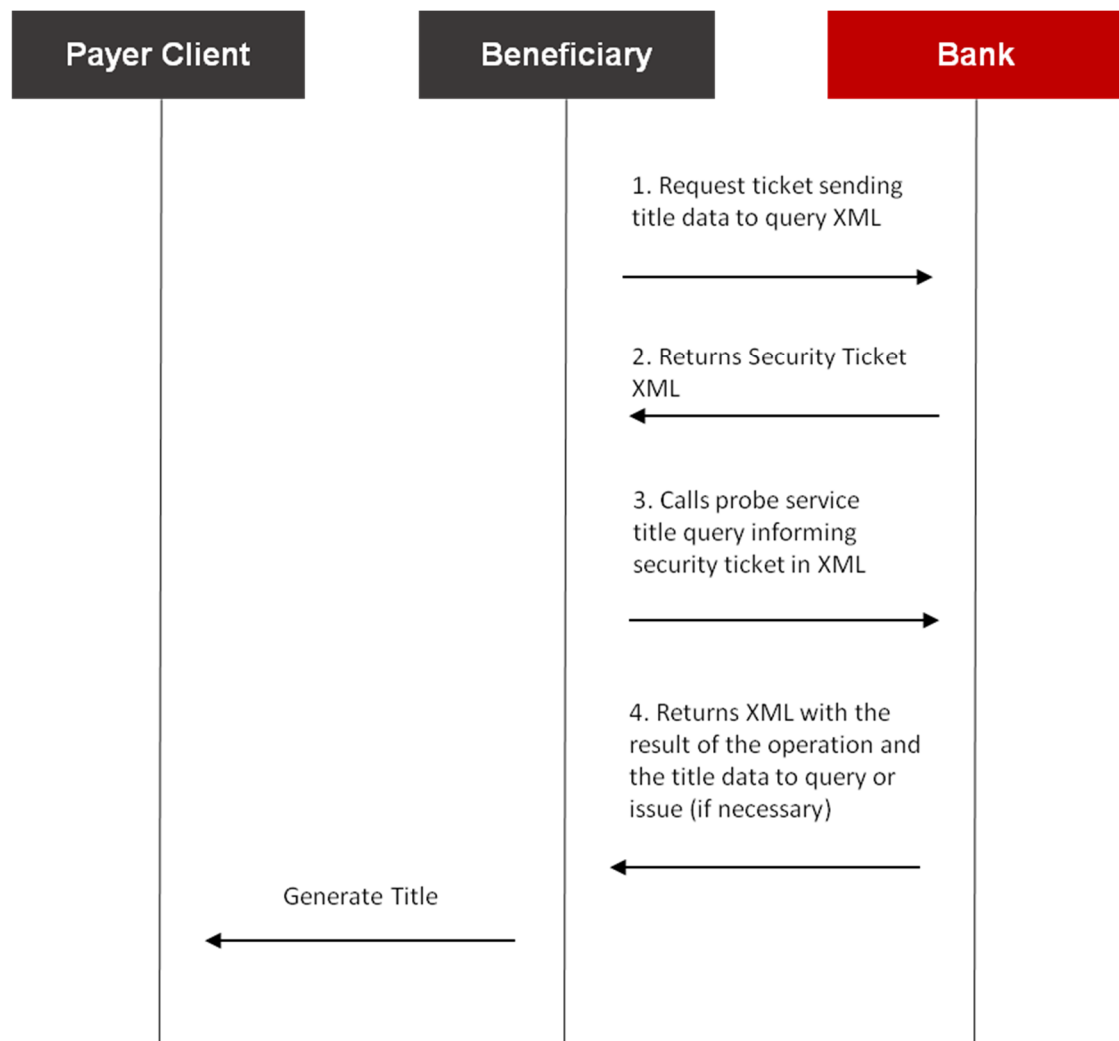
Operation of the XML Online Collection - Probe for Titles Query

Data Formatting in XML - Probe for Titles Query

1. Call to System for Request of Safety Ticket

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:impl="http://impl.webservice.dl.app.bsbr.altec.com/">
<soapenv:Header/>
 <soapenv:Body>
 <impl:create>
 <TicketRequest>


<dados>
        <entry>
                <key>CONVENIO.COD-BANCO</key>
                <value>0033</value>
        </entry>
        <entry>
                <key>CONVENIO.COD-CONVENIO</key>
                <value>123456789</value>
        </entry>
</dados>

<expiracao>100</expiracao>
 <sistema>YMB</sistema>
 </TicketRequest>
 </impl:create>
 </soapenv:Body>
</soapenv:Envelope>
```

2. Return of System on the Request of Safety Ticket

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Body>
<dlwmin:createResponse
xmlns:dlwmin="http://impl.webservice.dl.app.bsbr.altec.com/">
<TicketResponse>
<retCode>0</retCode>
<ticket>cfslcN5/EJuS3WSZIMnUp6P2pllnSra78ABGSocUKwpZd2TmKoKknBIWVjALtRC9bfa
8CoKU7DBKD8dMhYWyv7i+VSGqnjGq8Lg99U1EzdrItIALgPnFm6LpsIFThCRZ</ticket>
</TicketResponse>
</dlwmin:createResponse>
</soapenv:Body>
</soapenv:Envelope>
```

Obs.:

a) The above information in <ticket> </ticket> is an example of code informed by the Safety System;
b) In the transaction, the safety ticket information to be used for message authentication with the safety system, being unique per transaction and with no standardization.
c) The following are the error codes in the Ticket validation

retCode	Meaning
0	Ticket validated ok
1	Error, invalid input data
2	Cryptography internal error
3	Error, Ticket previously used
4	Error, Ticket generated to another system
5	Error, Ticket expired
6	Cryptography internal error (data)
7	Cryptography internal error (timestamp)

3. Call to the System for Probe

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:impl="http://impl.webservice.ymb.app.bsbr.altec.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <impl:consultaTitulo>
      <dto>
    <dtNsu>ddmmaaaa<</dtNsu>
    <estacao>xxxx</estacao>
    <nsu>xxxx</nsu>
<ticket>cfslcN5/EJuS3WSZIMnUp6P2pllnSra78ABGSocUKwpZd2TmKoKknBIWVjALtRC9bfa
8CoKU7DBKD8dMhYWyv7i+VSGqnjGq8Lg99U1EzdrItIALgPnFm6LpsIFThCRZ</ticket>
    <tpAmbiente>x</tpAmbiente>
      </dto>
    </impl:consultaTitulo>
  </soapenv:Body>
</soapenv:Envelope>
```

Obs.: In <ticket> </ticket> should have the same information of the returned ticket in the request process.

4. Return of System on the Request of Title Query

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:Body>
<dlwmin:consultaTituloResponse
xmlns:dlwmin="http://impl.webservice.ymb.app.bsbr.altec.com/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<return xmlns:ns2="http://impl.webservice.ymb.app.bsbr.altec.com/">
<nsu>xxxxxxxxxxxxxxxxxxxx</nsu>
<dtNsu>ddmmaaaa</dtNsu>
<tpAmbiente>x</tpAmbiente>
<estacao>xxxx</estacao>
<situacao>xx</situacao>
   <descricaoErro>
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
99999-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
</descricaoErro>
<convenio>
<codBanco>0033</codBanco>
<codConv>123456789</codConv>
</convenio>
<pagador>
<tpDoc>99</tpDoc>
<numDoc>999999999999999</numDoc>
<nome>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</nome>
<ender>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</ender>
<bairro>xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</bairro>
<cidade>xxxxxxxxxxxxxxxxxxx</cidade>
<uf>xx</uf>
<cep>99999999</cep>
</pagador>
<titulo>
<cdBarra>99999999999999999999999999999999999999999</cdBarra>
<linDig>999999999999999999999999999999999999999999999</linDig>
<dtEntr>ddmmaaaa</dtEntr>
<aceito>x</aceito>
<nossoNumero>9999999999999</nossoNumero>
<seuNumero>xxxxxxxxxxxxxxx</seuNumero>
<dtVencto>ddmmaaaa</dtVencto>
<dtEmissao>ddmmaaaa</dtEmissao>
<especie>xx</especie>
<vlNominal>999999999999999</vlNominal>
<pcMulta>99999</pcMulta>
<qtDiasMulta>99</qtDiasMulta>
<pcJuro>99999</pcJuro>
```

```
<tpDesc>9</tpDesc>
<vlDesc>999999999999999</vlDesc>
<dtLimiDesc>ddmmaaaa</dtLimiDesc>
<vlAbatimento>999999999999999</vlAbatimento>
<tpProtesto>9</tpProtesto>
<qtDiasProtesto>99</qtDiasProtesto>
<qtDiasBaixa>99</qtDiasBaixa>
<tipoPagto>9</tipoPagto>
<qtdParciais>99</qtdParciais>
<tipoValor>9</tipoValor>
<valorMinimo>99999999999999999</valorMinimo>
<valorMaximo>99999999999999999</valorMaximo>
<mensagem>
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
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xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
...
...
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxx
</mensagem>
        </titulo>
      </return>
    </dlwmin:consultaTituloResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

Tags Descriptions

OPERATION INFORMATION					
TAG NAME		DESCRIPTION	FORMAT	CONTENT	NOTES
NSU	**nsu**	NSU (*)	X(20)	Unique sequential number per Agreement / Date.	1
dtNsu		NSU Date (*)	ddmmaaaa	NSU generated date	2
TP-AMB	**tpAmbiente**	Environment (*)	X(01)	T = Test P = Production	3
CD-EST	**estacao**	Station Code (*)	X(04)	Station code generated by Banco Santander	4

BENEFICIARY INFORMATION					
TAG NAME		DESCRIPTION	FORMAT	CONTENT	NOTES
CONVENIO.COD-BANCO	**codBanco**	Bank code (*)	9(04)	0033 = Santander	
CONVENIO.COD-CONVENIO	**codConv**	Beneficiary code (*)	9(09)	Agreement number, informed by the Bank	5

PAYER INFORMATION					
TAG NAME		DESCRIPTION	FORMAT	CONTENT	NOTES
PAGADOR.TP-DOC	**tpDoc**	Payer Document Type	9(02)	01 = CPF 02 = CNPJ	6
PAGADOR.NUM-DOC	**numDoc**	Payer´s CPF/CNPJ	9(15)	Payer´s CPF or CNPJ	
PAGADOR.NOME	**nome**	Payer´s name	X(40)		
PAGADOR.ENDER	**ender**	Payer´s address	X(40)		
PAGADOR.BAIRRO	**bairro**	Payer´s district	X(30)		
PAGADOR.CIDADE	**cidade**	Payer´s city	X(20)		
PAGADOR.UF	**uf**	FU´s Payer	X(02)		
PAGADOR.CEP	**cep**	Payer´s Zip Code	9(08)		

TITLE INFORMATION					
TAG NAME		**DESCRIPTION**	**FORMAT**	**CONTENT**	**NOTES**
TITULO.NOSSO-NUMERO	**nossoNumero**	Our number (*)	9(13)	Title number in the Bank.	7
TITULO.SEU-NUMERO	**seuNumero**	Your number	X(15)	Title Number in Client	
TITULO.DT-VENCTO	**dtVencto**	Maturity Date	9(08)	Title maturity date	
TITULO.DT-EMISSAO	**dtEmissao**	Date of Issue	9(08)	Date of issue of Title	
TITULO.ESPECIE	**especie**	Type	9(02)	Document type code	8
TITULO.VL-NOMINAL	**vlNominal**	Nominal value	9(13)V99	Nominal value of the Title, with 2 decimal places	
TITULO.PC-MULTA	**pcMulta**	Percentage of Fine	9(03)V99	Percentage of fine, with 2 decimal places. Optional	
TITULO.QT-DIAS-MULTA	**qtDiasMulta**	Number of days of the fine	9(02)	Number of days after the Title maturity for incidence of the fine. Optional	
TITULO.PC-JURO	**pcJuro**	Percentage of Interest	9(03)V99	Percentage of interest, with 2 decimal places. Optional	
TITULO.TP-DESC	**tpDesc**	Type of discount	9(01)	0 = exempt 1 = fixed value to the date entered 2 = value by anticipation - calendar day 3 = value by anticipation - business days	9
TITULO.VL-DESC	**vlDesc**	Discount value	9(13)V99	Discount value, with two decimal places	
TITULO.DT-LIMI-DESC	**dtLimiDesc**	Limit date for Discount	9(08)	Limit date for Discount	
TITULO.VL-ABATIMENTO	**vlAbatimento**	Deduction Value	9(13)V99	Deduction Value. Optional	
TITULO.TP-PROTESTO	**tpProtesto**	Protest type	9(01)	0 = Do not protest 1 = Protest calendar days 2 = Protest working days 3 = Use Assignor Profile	10

TITLE INFORMATION				
TAG NAME		**DESCRIPTION**	**FORMAT**	**CONTENT**	**NOTES**
TITULO.TP-PROTESTO	tpProtesto	Protest type	9(01)	0 = Do not protest 1 = Protest calendar days 2 = Protest working days 3 = Use Assignor Profile	10
TITULO.QT-DIAS-PROTESTO	qtDiasProtesto	Number of days to protest	9(02)	Number of days past maturity to protest	
TITULO.QT-DIAS-BAIXA	qtDiasBaixa	Number of days to auto write-off	9(02)	Number of days past maturity to write-off / return of Title	11
TITULO.TP-PAGAMENTO	tipoPagto	Identification of type of Payment	9(01)	1 = Registered 2 = Divergent 3 = Partial (Optional for type of payment 1 or 2)	12
TITULO.QT-PARCIAIS	qtdParciais	Quantity of possible Payments	9(02)	Identify the quantiy of possible payments from 00 up to 99. (Optional)	13
TITULO.TP-VALOR	tipoValor	Type of value informed	9(01)	1 = Percentage 2 = Value (Optional)	14
TITULO.VL-PERC-MINIMO	valorMinimo	Minimum Value/Percentage of the Payment Slip	9(10)V99999	10 integers and 5 decimals	15
TITULO.VL-PERC-MAXIMO	valorMaximo	Maximum Value/Percentage of the Payment Slip	9(10)V99999	10 integers and 5 decimals	16

MESSAGE INFORMATION				
TAG NAME		**DESCRIPTION**	**FORMAT**	**CONTENT**	**NOTES**
MENSAGEM	mensagem	Message	X(100)	Message	17

RETURN INFORMATION					
TAG NAME		**DESCRIPTION**	**FORMAT**	**CONTENT**	**NOTES**
situacao		Return Status	X(02)	Description of the Return Status Code	18
COD-DESCRICAO	**descricaoErro**	Return code*	15 events 9(05)	Description of Return Code	19
		Description of Return Code	15 events X(40)	Description of Return Code	
CD-BARRA	**cdBarra**	Barcode	X(44)	Barcode of payment slip	
LIN-DIG	**linDig**	Typeful line	X(47)	Typeful line of payment slip	
DT-ENTR	**dtEntr**	Date of delivery	9(08)	Entry date of Title in Bank	
TIT-ACEITO	**aceito**	Title accepted	X(01)	S = Accepted N = Not Accepted	
NOSSO-NUMERO	**nossoNumero**	Our number (*)	9(13)	Title number in the Bank in case it has been numbered by the Bank	7

* Except to return code format @ERYKE0001 described in 19 note

SEARCH INFORMATION FOR PROBE					
TAG NAME		**DESCRIPTION**	**FORMAT**	**CONTENT**	**NOTES**
CONVENIO.COD-BANCO	**codBanco**	Bank code (*)	9(04)	0033 = Santander	
CONVENIO.COD-CONVENIO	**codConv**	Beneficiary code (*)	9(09)	Beneficiary code	5
NSU	**nsu**	NSU (*)	X(20)	Unique sequential number per Agreement / Date.	1
dtNsu		NSU Date (*)	ddmmaaaa	NSU generated date	2
tpAmbiente (*)	**tpAmbiente**	Environment (*)	X(01)	T = Test P = Production	3
estacao (*)	**estacao**	Station Code (*)	X(04)	Station code generated by Banco Santander	4

(*) Probe research data to query titles

Notes

Note 1: <u>NSU</u>

It is the operation identification number entered by the Beneficiary and is also used in the probe service:

- When informed test environment, the literal "TST" in the first 3 positions must be informed;
- When informed production environment, literal "TST" in the first 3 positions may not be informed.

The NSU should be sent with the probe, used in the titles entry.

Nota 2: <u>Date NSU</u>

Date of NSU sent.

Note 3: <u>Environment</u>

- Inform 'T' when the agreement is still under test - it will not be registered;
- Inform 'P' for registration of titles under production.

Note 4: <u>Station Code</u>

Station code registered in the agreement provided by the Bank.

Note 5: <u>Beneficiary code</u>

Agreement number registered in the system and provided by the Bank

Note 6: <u>Payer´s CPF/CNPJ</u>

Numeric field with leading zeros.

Note 7: <u>Our number</u>

Titles identification in the Bank:

- If the responsible for numbering is the Bank: fill with zeros;
- If the responsible for numbering is the Client: The Client must inform numerical value.

Failure to report or informing non-numeric value, an error message will be sent: "Our field Non-numerical Number".

Note 8: Document type

Inform code as shown below:

Code	Description
02	DM – Merchant Trade Bill
04	DS – Service Trade Bill
12	NP – Promissory Note
13	NR – Rural Promissory Note
17	RC – Receipt
20	AP – Insurance Policy
31	BCC – Credit card
32	BDP – Offer Bill
97	CH – Check
98	ND – Direct Promissory Note
99	OUT – Other

For type 31 BCC – Credit Card Bill

- The partial payment option is default with up to 99 tranches, allowing any value of payment. The Beneficiary must perform the treatment of partial settlement of payment slip.
- In order to Write-Off the payment slip of type Credit Card Bill (BCC), is necessary that the Beneficiary executes the write-off of payment slip at the moment of emission of the next credit card bill.
- The Beneficiary must register each credit card bill (BCC) with a different Our Number, adding/deducting the remaining balance of previous credit card bill. In case of the Beneficiary does not have a new credit card bill to emit to the payer, is recommended to keep the status of credit card bill of the previous month as open.
- Is not allowed the instructions of Fine, Interest, Discount, Deduction, Protest and Negativation of the payment slip. In case of instructions sent, they will be despised at the registration of payment slip.

For type 32 BDP – Offer Bill

- The divergent payment option is default, allowing any value of payment. The Beneficiary must perform the treatment of settlement for any value on the payment slip.
- Is not allowed the instructions of Fine, Interest, Discount, Deduction, Protest and Negativation of the payment slip. In case of instructions sent, they will be despised at the registration of payment slip.

Note 9: Type of discount

Inform:
0 = exempt
1 = fixed value to the date entered
2 = value by anticipation - calendar day

3 = value by anticipation - business days

It should be informed the date in field "Limit date for discount, whether type of discount = 1, 2 or 3.

Note 10: <u>Protest type</u>

Inform:
0 = Do not protest
1 = Protest calendar days
2 = Protest working days
3 = Use assignor profile

It should be informed the days to protest in field "Number of days to protest", whether type of protest = 1 or 2, or filled with zero, whether type of protest = 0 or 3.

Note 11: <u>Number of days to auto write-off</u>

Number of days past maturity to write-off / return of titles.
If informed zeros it will be assumed the beneficiary of the agreement profile.

Note 12: <u>Identification of type of Payment</u>

Optional register to identify the type of payment

Inform:
1 = Registered
2 = Divergent
3 = Partial

Note 13: <u>Quantity of possible Payments</u>

Identify the quantity of possible payments: from 01 up to 99 (mandatory for type of Payment Partial).

Note 14: <u>Type of value Informed</u>

Inform:
1 = % Percentage
2 =   Value

Note 15: <u>Minimum Value/Percentage of the Payment Slip</u>

Identify the minimum value/percentage of the payment slip.

If the value informed is Percentage, consider the Formatting 9(10)V99999
If the value informed is Value, consider the Formatting 9(10)V99000

Note 16: <u>Maximum Value/Percentage of the Payment Slip</u>

Identify the maxi mum value/percentage of the payment slip.

If the value informed is Percentage, consider the Formatting 9(10)V99999
If the value informed is Value, consider the Formatting 9(10)V99000

Note 17: <u>Message</u>

Message to be printed on payer´s receipt. Up to 45 lines of 100 characters without accentuation separated by CRLF

Nota 18: <u>Situation</u>

When the situation is "00" means that the title has been registered or the information returned in probe.

When the situation is "20" means that there was an inconsistency in the inclusion or probe.

Note 19: <u>Return code</u>

Up to 15 lines with code-description, separated by CRLF

Code	Description
@ERYKE0001	Existing Title
00000	Titles registered in collection
00001	Our number invalid / incompatible
00007	Type of document invalid
00016	Maturity date invalid
00026	Due date greater than 10 years
00057	Zip code of payor incorrect
00058	CPF/CNPJ invalid

Code	Description
00093	Value of titles not informed
00098	Issue date invalid
00100	Issue date superior than maturity date
00102	Payor's address not informed
00103	Payor's municipality not informed
00107	Federation unit incorrect
00113	Discount value invalid
00124	Payor's Zip code not found
00128	Protest code invalid
00145	Type of document invalid
00147	Number of days to protest invalid
00160	Payer's district not informed
00176	Register not found
00422	Inconsistent certificate
00423	Station is not part of the agreement
00424	Agreement not marked for message exchange for online entry
00425	Environment marked as test and NSU is not a test one
00426	Environment marked as production with test NSU
00427	Invalid Nominal Value for the type of Payment
00428	Agreement is not active
00429	Discount type invalid
00430	Exempt with discounted value
00431	Field our number non-numerical
00432	Tipo de pagamento inválido
00433	Limit date discount invalid

Code	Description
00434	Quantity of Partial Payments invalid
00444	Type of Value invalid
00464	Minimum Percentage invalid, less than the minimum allowed
00465	Minimum Percentage invalid, less than the maximum allowed
00468	Maximum Percentage invalid, less than the minimum allowed
00469	Maximum Percentage invalid, more than the maximum allowed
00470	Maximum Percentage invalid, less than the minimum informed
00473	Minimum Value invalid for Nominal Value as zero
00474	Minimum Value invalid, greater than the value of Payment Slip
00475	Minimum Value invalid, Valor mínimo inválido, maior que o permitido
00479	Maximum Value invalid, smaller than the value of Payment Slip
00480	Maximum Value invalid, smaller than the Minimum Value informed
00482	Minimum Value must be greater than zeros

Attachment Manual Digital Certificate

Conditions and technical types for use of the Solution.

1. Certificate Application Type[1]

The Solution uses mutual authentication for client certificate use. The certificate is designed to prevent negative consequences if data is intercepted and defrauded by others.

Type	Certificate information		Compatibity Collection XML
	English	Português	
Client	Proves your identity to a remote computer	Comprova sua identidade para um computador remoto	Yes
Server	Ensures the identity of a remote computer	Assegura a identidade de um computador remoto	No
Both (Client Server)	All application policies	Todas as políticas de aplicação	Yes

Example:
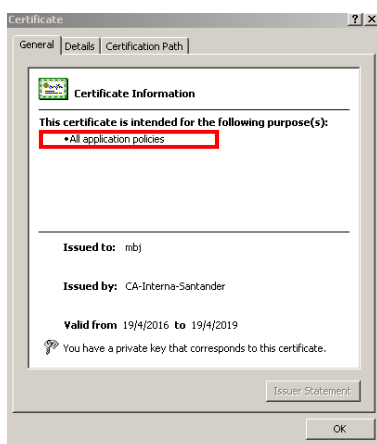
All application policies
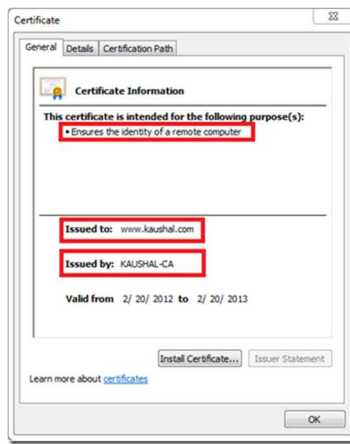
Ensures the identity of a remote computer

Prove your identity to a remote computer

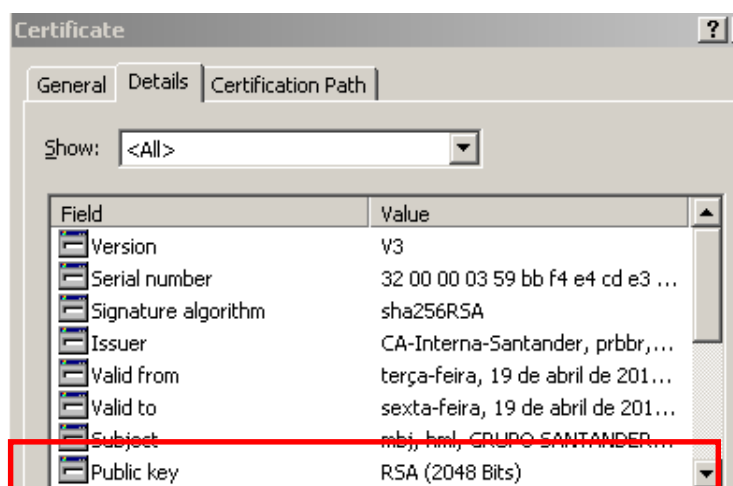**Ps.: Not compatible with common SSL Server certificate.**

2. .CER File

It will be requested a .CER file of digital certificate purchased to register in security Bank environment.
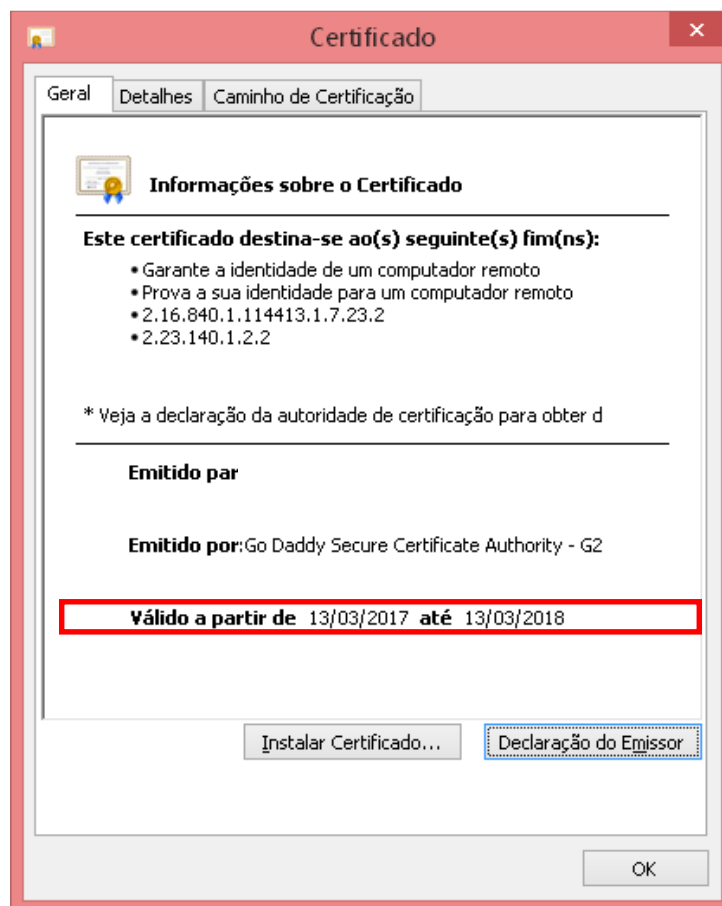
3. Key Size – 2048 bits[1]

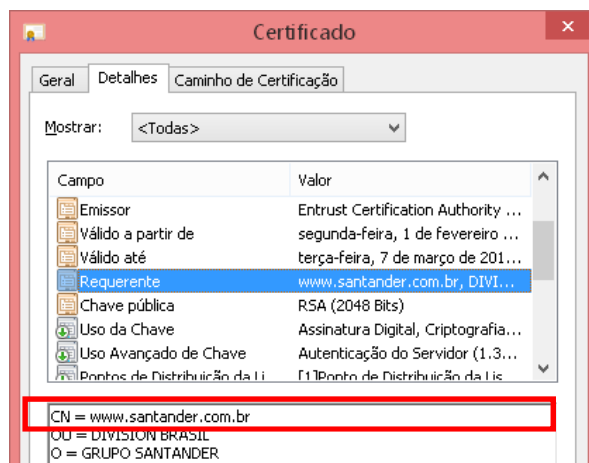The digital certificate (client certificate) shall be 2048 bits.

4. Experation Date

The certificate must have a valid date when it is sent to register

5. Common Name (CN)²

¹ **Conditions for solution use.**

² **Attributes that should be informed to the solution operation.**

6. Certificates Recommended*

Name of Recommended Certifiers	
AC Camerfirma S.A.	SECOM Trust Systems CO.,LTD.
AddTrust AB	Sonera
America Online Inc.	Starfield Technologies, Inc.
Baltimore	SwissSign AG
Certplus	TC TrustCenter GmbH
Comodo CA Limited	Thawte
Deutsche Telekom AG	Thawte Consulting cc
DigiCert Inc	Thawte Consulting cc
Entrust, Inc.	thawte, Inc.
Entrust.net	The Go Daddy Group, Inc.
Equifax Secure Inc.	The USERTRUST Network
GeoTrust Inc.	T-Systems Enterprise Services GmbH
GlobalSign	Unizeto Technologies S.A.
GTE Corporation	ValiCert, Inc.
KEYNECTIS	VeriSign, Inc.
QuoVadis Limited	

*Attention: it is not accepted certificates signed by the company itself

The certifiers below are partners of the Santander Bank:
- Serasa: https://serasa.certificadodigital.com.br/santander/
- GlobalSign: www.arprime.com/santander

Observation: The Santander Bank is not responsible for any commercial and technical conditions of the Certificate hired through certifiers company.