Inkassogram

API documentation

Inkassogram XML Integration creditInvoice

Use this API to create a new credit invoice.

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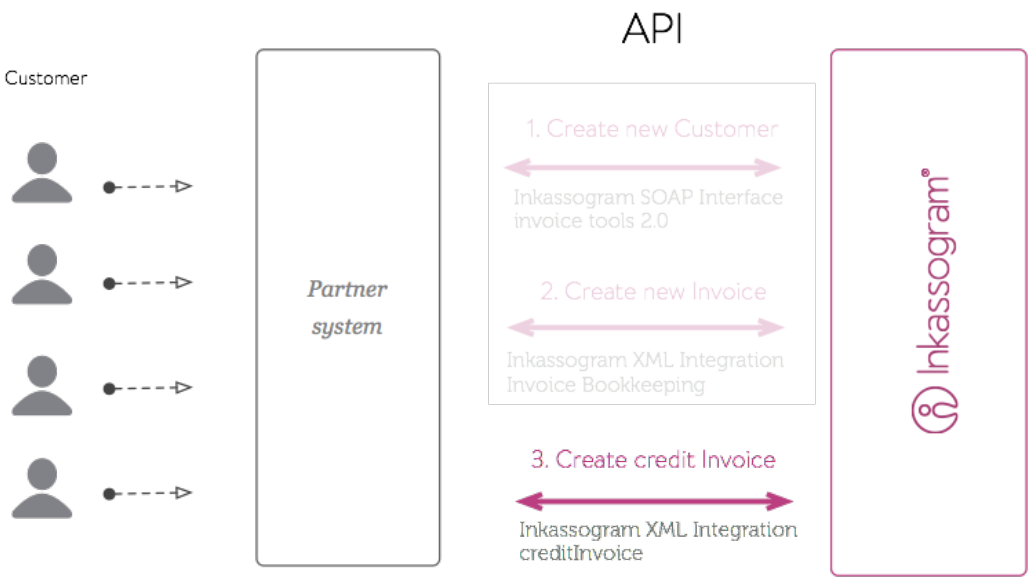
1. Introduction



This document describes the Inkassogram XML Integration format.
An API is also available to check the payment status of invoices.
The requests are posted in XML format to the specified URL using a HTTP/HTTPS post request.

Note that the HTTP Content-Type must be set to “text/xml” and encoding to UTF-8.

This document explains the API, provides a data dictionary detailing the format of content and provides sample calls to the API. Finally, some specific notes on the XML format and Unicode are provided.

1.1 Header Data

The following two parameters should be defined in the header for all requests and communication with Inkassogram API.

customerNo: Identify number sent by Inkassogram after signed agreement.
Key: MD5(Public ServerIP + Timestamp + PrivateKey).

Definition of MD5 Key
Public ServerIP: The Public IP address used by the server for the integration API. It’s also possible to authenticate without the “IP lock”.
Timestamp: Daily date YYYYMMDD (20101224).

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PrivateKey: length 32 characters with case sensitive, sent by Inkassogram after signed agreement.

Note: The **Key** is NOT the same as the Private Key. It's an MD5 SUM of the parameters above without colon and spaces.

1.2 XML Types

All fields within the XML API have their type defined in an XML Schema. The data types of the XML elements are typically simple XML Schema types such as strings and integers with restrictions on their length or values. The relevant section for each API includes examples of valid XML as defined by the XML schema. In addition a data dictionary for each API explains the expected format of each XML element, for example see section 2.1.3. The following notation is used to describe the format of the XML content in the data dictionary.

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2 XML Integration

Header parameters must be defined for all requests! See section 1.1

Redeem Invoice Request XSD Schema: creditInvoiceSchema1.0.xsd
Redeem Invoice POST Request: https://api.inkassogram.se/API/creditInvoice

2.1 Redeem Invoice / creditInvoice

Use the Credit Invoice API to redeem one or more products sent to the end customer.

There's two acceptable alternatives to match the redemption of the invoice. By using:

* The OCR number provided in the response by Inkassogram when the invoice was created.
* The unique orderNo sent by the customer in the request when the invoice was created.

The article rows to redeem have to be correctly given with the articleNo, vat, quantity and price.

The redemption request is submitted to the Inkassogram platform as XML message, transmitted as HTTP POST request. Applications submitting messages to the Credit Invoice API must format the XML request as described in section 2.1.1.

Upon receipt of a valid XML request, the Inkassogram platform will prepare a redemption for delivery to the end customer and return an XML response as described in section 2.1.2.

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2.1.1 Credit Invoice Request XML

Two examples are listed below

```
<?xml version="1.0" encoding="UTF-8"?>
<methodCall xmlns="https://api.inkassogram.se/API/creditInvoice" xmlns:xsi="http://www.
w3.org/2001/XMLSchema-instance"
            xsi:schemaLocation="https://api.inkassogram.se/API/creditInvoice https://ap
i.inkassogram.se/API/creditInvoiceSchema1.0.xsd">
    <methodName>creditInvoice</methodName>
    <request>
        <testCredit>1</testCredit>
        <printSetup>1</printSetup>
        <includingVat>1</includingVat>
        <orderNo>782</orderNo>
        <comment></comment>
        <creditRows>
            <creditRow>
                <articleNo></articleNo>
                <vat></vat>
                <quantity></quantity>
                <price></price>
            </creditRow>
            <creditRow>
                <articleNo>4144</articleNo>
                <vat>12</vat>
                <quantity>1</quantity>
                <price>3400</price>
            </creditRow>
    </creditRows>
    </request>
</methodCall>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<methodCall xmlns="https://api.inkassogram.se/API/creditInvoice" xmlns:xsi="http://www
.w3.org/2001/XMLSchema-instance"
            xsi:schemaLocation="https://api.inkassogram.se/API/creditInvoice https://a
pi.inkassogram.se/API/creditInvoiceSchema1.0.xsd">
  <methodName>creditInvoice</methodName>
  <request>
    <testCredit></testCredit>
    <printSetup></printSetup>
    <includingVat></includingVat>
    <ocr></ocr>
    <orderNo></orderNo>
    <comment></comment>
    <creditAllRows>1</creditAllRows>
  </request>
</methodCall>
```


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2.1.2 Credit Invoice Response XML

Two examples is listed below

```
<?xml version="1.0" encoding="UTF-8"?>
<methodCall xmlns="https://api.inkassogram.se/API/creditInvoice" xmlns:xsi="http://www.
w3.org/2001/XMLSchema-instance"
            xsi:schemaLocation="https://api.inkassogram.se/API/creditInvoice https://ap
i.inkassogram.se/API/creditInvoiceSchema1.0.xsd">
  <methodName>creditInvoice</methodName>
  <response>
    <ocr></ocr>
    <statusCode>0</statusCode>
    <errorCode>6</errorCode>
  </response>
</methodCall>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<methodCall xmlns="https://api.inkassogram.se/API/creditInvoice" xmlns:xsi="http://www.
w3.org/2001/XMLSchema-instance"
            xsi:schemaLocation="https://api.inkassogram.se/API/creditInvoice https://ap
i.inkassogram.se/API/creditInvoiceSchema1.0.xsd">
  <methodName>creditInvoice</methodName>
  <response>
    <statusCode>1</statusCode>
    <customerSsn>4401011111</customerSsn>
    <companyOrgNo/>
    <customerName>Bengt Öberg</customerName>
    <customerAddress>Kungsgatan</customerAddress>
    <customerZip>26033</customerZip>
    <customerCity>Påarp</customerCity>
    <co_address1/>
    <co_address2/>
    <co_address3/>
    <co_address4/>
    <co_address5/>
    <amountLeft>0</amountLeft>
    <amountPaid>0</amountPaid>
    <ocr>233580000</ocr>
    <bg_account>462-1272</bg_account>
    <dueDate>1356908400</dueDate>
  </response>
</methodCall>
```


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2.1.3 Credit Invoice Data Dictionary

Explained elements for the XML Request Credit Invoice

Element	Data Type	Optional	Value	Description
testCredit	String	Yes	1	For testing mode, doesn't save the credit to DB
printSetup	Integer	No	1,2,3,4	1 - E-faktura, PDF 2 - Printa själv 3 - Print on Demand 4 - SMS Faktura
includingVat	Integer	Yes	1	Recommended is to have this on and send all prices including vat
ocr	Integer	Yes if orderNo is used		1 - Fakturaservice 2 - Fakturabelåning 3 - Factoring
orderNo	string	Yes if ocr is used		
showInvoiceFooterTextInResponse	Integer	Yes	1/0	invoice transfer text. A mandatory text if you create your own invoice layout.
comment	string	Yes		
email	String	Yes		Email address if we shall send the credit invoice via email.
mobile	String	Yes	46760000000, 45760000000, +46.., +45.., +44..	Mobile Phone Number, needed for SMS Faktura print setup 4.
creditAllRows	Integer	Yes	1	All rows will be automatically credited
creditRows				
articleNo	String	No		Article Number
vat	Integer	No	0, 6, 12, 25	Vat of the article
quantity	Float	No		The quantity of the sold articles

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Element	Data Type	Optional	Value	Description
price	Integer	No		Price incl. VAT in Á price
Response				
statusCode	Integer	No	1/0	
customerSsn	String	Yes		returned on statusCode 1
customerOrgNo	String	Yes		returned on statusCode 1
customerName	String	Yes		returned on statusCode 1
customerAddress	String	Yes		returned on statusCode 1
customerZip	String	Yes		returned on statusCode 1
customerCity	String	Yes		returned on statusCode 1
co_address1	String	Yes		returned on statusCode 1
co_address2	String	Yes		returned on statusCode 1
co_address3	String	Yes		returned on statusCode 1
co_address4	String	Yes		returned on statusCode 1
co_address5	String	Yes		returned on statusCode 1
amountLeft	Integer	Yes		returned on statusCode 1
amountPaid	Integer	Yes		returned on statusCode 1
ocr	Integer	Yes		returned on statusCode 1
orderNo	String	Yes		returned on statusCode 1
bg_account	String	Yes		returned on statusCode 1

Element	Data Type	Optional	Value	Description
dueDate	Integer	Yes		returned on statusCode 1
invoiceFooterText		Yes		If element showInvoiceFooterTextInResponse is true response will contain this element.
errorCode		Yes		returned on statusCode 0
description		Yes		returned on statusCode 0
friendlyMessage		Yes		returned on statusCode 0 same language used when the createInvoice call received. default swedish

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2.1.4 Credit Invoice XSD Scheme

URL: https://api.inkassogram.se/API/creditInvoiceSchema1.0.xsd

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
           xmlns:cre="https://api.inkassogram.se/API/creditInvoice"
           targetNamespace="https://api.inkassogram.se/API/creditInvoice"
           elementFormDefault="qualified">
  <xs:element name="methodCall" type="cre:methodCallType"/>

  <xs:complexType name="methodCallType">
    <xs:sequence>
      <xs:element type="xs:string" name="methodName"/>
      <xs:choice>
        <xs:element type="cre:requestType" name="request" maxOccurs="unbounded" minOccu
rs="1"/>
        <xs:element type="cre:responseType" name="response" maxOccurs="unbounded" minOc
curs="1"/>
      </xs:choice>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="creditRowType">
    <xs:sequence>
      <xs:element name="articleNo" type="xs:string" minOccurs="1" maxOccurs="1"/>
      <xs:element name="vat" type="xs:int" minOccurs="1" maxOccurs="1"/>
      <xs:element name="quantity" type="xs:float" minOccurs="1" maxOccurs="1"/>
      <xs:element name="price" type="xs:int" minOccurs="1" maxOccurs="1"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="creditRowsType">
    <xs:sequence>
      <xs:element type="cre:creditRowType" name="creditRow" maxOccurs="unbounded" minOc
curs="1"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="requestType">
    <xs:sequence>
      <xs:element name="testCredit" maxOccurs="1" minOccurs="0">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="true"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="printSetup" maxOccurs="1" minOccurs="0">
        <xs:simpleType>
          <xs:restriction base="xs:int">
            <xs:enumeration value="4"/>
            <xs:enumeration value="3"/>
            <xs:enumeration value="2"/>
            <xs:enumeration value="1"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="includingVat" maxOccurs="1" minOccurs="0">
        <xs:simpleType>
```


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```
          <xs:restriction base="xs:int">
            <xs:enumeration value="1"/>
            <xs:enumeration value="0"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:choice>
    <xs:element name="ocr" type="xs:int" minOccurs="1" maxOccurs="1"/>
        <xs:element name="orderNo" type="xs:string" minOccurs="1" maxOccurs="1"/>
      </xs:choice>
      <xs:element name="showInvoiceFooterTextInResponse" maxOccurs="1" minOccurs="0">
        <xs:simpleType>
          <xs:restriction base="xs:int">
            <xs:enumeration value="1" />
            <xs:enumeration value="0" />
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="comment" type="xs:string" minOccurs="0" maxOccurs="1"/>
      <xs:element name="email" type="xs:string" minOccurs="0" maxOccurs="1"/>
      <xs:choice>
        <xs:element name="creditAllRows" maxOccurs="1" minOccurs="0">
          <xs:simpleType>
            <xs:restriction base="xs:int">
              <xs:enumeration value="1"/>
            </xs:restriction>
          </xs:simpleType>
    </xs:element>
        <xs:element name="creditRows" type="cre:creditRowsType"/>
      </xs:choice>
    </xs:sequence>
  </xs:complexType>

  <!-- Server response for credit request below -->
  <xs:complexType name="responseType">
    <xs:sequence>
      <xs:element name="statusCode" maxOccurs="1" minOccurs="1">
        <xs:simpleType>
          <xs:restriction base="xs:int">
            <xs:enumeration value="1"/>
            <xs:enumeration value="0"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element type="xs:string" name="customerSsn" maxOccurs="1" minOccurs="0"/>
      <xs:element type="xs:string" name="companyOrgNo" maxOccurs="1" minOccurs="0"/>
      <xs:element type="xs:string" name="customerName" maxOccurs="1" minOccurs="0"/>
      <xs:element type="xs:string" name="customerAddress" maxOccurs="1" minOccurs="0"/>
      <xs:element type="xs:string" name="customerZip" maxOccurs="1" minOccurs="0"/>
      <xs:element type="xs:string" name="customerCity" maxOccurs="1" minOccurs="0"/>
      <xs:element type="xs:string" name="co_address1" maxOccurs="1" minOccurs="0"/>
      <xs:element type="xs:string" name="co_address2" maxOccurs="1" minOccurs="0"/>
      <xs:element type="xs:string" name="co_address3" maxOccurs="1" minOccurs="0"/>
      <xs:element type="xs:string" name="co_address4" maxOccurs="1" minOccurs="0"/>
      <xs:element type="xs:string" name="co_address5" maxOccurs="1" minOccurs="0"/>
      <xs:element name="amountLeft" type="xs:int" maxOccurs="1" minOccurs="0"/>
      <xs:element name="amountPaid" type="xs:int" maxOccurs="1" minOccurs="0"/>
      <xs:element name="ocr" type="xs:int" maxOccurs="1" minOccurs="0"/>
      <xs:element name="orderNo" type="xs:string" maxOccurs="1" minOccurs="0"/>
      <xs:element name="bg_account" type="xs:string" maxOccurs="1" minOccurs="0"/>
      <xs:element name="dueDate" type="xs:int" maxOccurs="1" minOccurs="0"/>
```


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```
      <xs:element type="xs:string" name="invoiceFooterText" maxOccurs="1" minOccurs="0"
/>
      <xs:element type="xs:string" name="pdfFile" maxOccurs="1" minOccurs="0"/>
      <xs:element type="xs:int" name="errorCode" maxOccurs="1" minOccurs="0"/>
      <xs:element type="xs:string" name="description" maxOccurs="1" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:schema>
```


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3 Status Codes

statusCode	errorCode	description
0	99	Validate XML against XSD failed
0	101	ssn and orgno failed, one element should be used
0	102	Invalid ssn number, no match
0	103	Invalid organization number, no match
0	104	Zip code not set
0	105	Invalid zip
0	106	Phone number not set
0	107	Invalid phone number
0	108	Missing email address
0	109	Invalid email address
0	110	Missing Order Number
0	111	Client Ip number not set
0	112	Your credit is to low in this shop
0	113	Database error in CCM..
0	114	Zip and orgNo doesn't match
0	115	Zip and ssn doesn't match
0	116	Prövning på privatperson
0	117	Avslag på privatperson
0	118	Personnummer kunde inte hittas
0	119	ssn isn’t a trusted Credit customer
0	120	Prövning på företag
0	121	Avslag på företag
0	122	Organization number couldn’t be found
0	123	Company isn’t a trusted Credit customer

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statusCode	errorCode	description
0	124	Request not received correctly
0	125	Key doesn't match
0	10	orderNo or OCR isn’t defined
0	40	Quantity: To many decimals, just one is accepted!
0	20	Invalid ocr number
0	21	Invalid orderNo
0	11	The system is working with this invoice for the moment, please try again later
0	26	The invoice dueDate has past.. Contact Inkassogram to redeem the invoice
0	30	The invoice is already redeemed
0	31	The invoice or some of the article rows is already redeemed
0	13	There’s no matching article rows
0	24	The VAT doesn’t match any rows
0	28	The redemption rows doesn’t match the original invoice
0	31	Some of the rows is already redeemed
0	23	The redemption price is higher than the amount left to redeem is
0	126	CCM Error
1		Delivered

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4 Code Libraries

There are libraries available that allow for a faster integration with our services. See the following sections for more information regarding the programming languages available.

4.1 PHP Integration

The PHP library can be downloaded from:
https://github.com/inkassogram/api-libs/tree/master/PHP

4.2 Java Integration

The Java library can be downloaded from:
https://github.com/inkassogram/api-libs/tree/master/Java

4.3 .NET Integration

The Java library can be downloaded from:
https://github.com/inkassogram/api-libs/tree/master/NET

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