

Kofax FraudOne

Global Fraud Signature Web Service Developer's Guide

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The KOFAX logo is rendered in a bold, blue, sans-serif typeface. The letters are thick and closely spaced, with a consistent weight throughout the word.

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Preface

This document describes in detail all of the currently available FraudOne Global Fraud Signatures Web services and all Web service interface parameters for them.

The document is a definition of the FraudOne Global Fraud Signatures Web services and a specification of the parameters and their allowed values and / or ranges for each Web service. Samples provided should enable developers to use the Web services in an existing or newly developed application.

The description is restricted to the published Web service interface itself. Internally used parameters or services that may extend the Web service functionality beyond the published interface are not described.

This document was prepared for developers to allow development of the web services and those products that interact with (consume and support) the web services.

Related documentation

The full documentation set for Kofax FraudOne is available at the following location:

<https://docshield.kofax.com/Portal/Products/FO/4.5.0-th2k87ey6r/FO.htm>

In addition to this guide, the documentation set includes the following items:

Guides

- *Kofax FraudOne Administrator's Guide*
- *Kofax FraudOne Data Warehouse Installation and Operation Guide*
- *Kofax FraudOne Extended Reporting Features and Statistics*
- *Kofax FraudOne Feature Codes*
- *Kofax FraudOne Installation and Migration Guide*
- *Kofax FraudOne Java Client Customization Guide*
- *Kofax FraudOne Java Client Customization Layer*
- *Kofax FraudOne License Management*
- *Kofax FraudOne Report Component Installation Guide*
- *Kofax FraudOne SignCheck Result Codes*
- *Kofax FraudOne Standard Reporting Features and Statistic*
- *Kofax FraudOne The Book on CRS*
- *Kofax FraudOne Thin Client Customization Guide*
- *Kofax FraudOne Thin Client Customization Layer*

Interfaces

- *Kofax FraudOne Archive Interface Server*

- *Kofax FraudOne ASV Blackbox*
- *Kofax FraudOne Common API Specifications for GIA Engines*
- *Kofax FraudOne Service Program Interfaces*
- *Kofax FraudOne User Login Procedure*
- *Kofax FraudOne Standard Teller Interface*
- *Kofax FraudOne Variant Cleanup Utility*

Online Help

- *Kofax FraudOne Administration Client Help*
- *Kofax FraudOne Java Client Help*
- *Kofax FraudOne Server Monitor Help*
- *Kofax FraudOne Thin Client Help*

Training

Kofax offers both classroom and computer-based training that will help you make the most of your Kofax FraudOne solution. Visit the Kofax website at www.kofax.com for complete details about the available training options and schedules.

Getting help with Kofax products

The [Kofax Knowledge Base](#) repository contains articles that are updated on a regular basis to keep you informed about Kofax products. We encourage you to use the Knowledge Base to obtain answers to your product questions.

To access the Kofax Knowledge Base, go to the [Kofax website](#) and select **Support** on the home page.

Note The Kofax Knowledge Base is optimized for use with Google Chrome, Mozilla Firefox or Microsoft Edge.

The Kofax Knowledge Base provides:

- Powerful search capabilities to help you quickly locate the information you need.
Type your search terms or phrase into the **Search** box, and then click the search icon.
- Product information, configuration details and documentation, including release news.
Scroll through the Kofax Knowledge Base home page to locate a product family. Then click a product family name to view a list of related articles. Please note that some product families require a valid Kofax Portal login to view related articles.
- Access to the Kofax Customer Portal (for eligible customers).
Click the **Customer Support** link at the top of the page, and then click **Log in to the Customer Portal**.
- Access to the Kofax Partner Portal (for eligible partners).
Click the **Partner Support** link at the top of the page, and then click **Log in to the Partner Portal**.

- Access to Kofax support commitments, lifecycle policies, electronic fulfillment details, and self-service tools.

Scroll to the **General Support** section, click **Support Details**, and then select the appropriate tab.

Chapter 1

General information

Web service structure

The implementation are SOAP Web services based on a WSDL file (see WSDL file).

There are three different schemas with the following functionalities:

- **Global Fraud Signature - Insert**
Inserts a new global fraud signature record with the provided data (see Insert global fraud signature schema)
- **Global Fraud Signature - List**
Retrieves information about all existing global fraud signature records (see Read global fraud signature list schema)
- **Global Fraud Signature - Delete**
Deletes a global fraud signature record with the provided data (see Delete global fraud signature schema)

You can find examples of requests and responses in Attachment 2.

Data types

The Web service parameters are defined in terms of the following data types:

- binary data
- strings
- numbers
- dates

Binary data is transported in the format(s) supported by the infrastructure used to consume the web services.

All character string data is encoded as specified in the Web service header, in general UTF-8 encoding is preferred, but any encoding is acceptable in so far as the encoding can transport the character set required by the installation consuming the services. The Web services themselves will transform the incoming data into Unicode for further processing and forwarding to the back end and will perform the reverse transformation from Unicode to the chosen encoding before sending the service response.

Numbers are transported as formatted character strings consisting of digits only plus a leading minus sign for negative numbers.

Dates data is expected in the format YYYY-MM-DD.

Web service configuration settings

All the Web service configuration settings are done in the GFS_ws.properties file.

Parameter	Comment
SignBase.Host	Server host
SignBase.Port	Server port
SignBase.Timeout	Possible server timeout
Codepage	Code page specification
Log.Mode	Selected log mode: LOG_MODE_SIMPLE = 1 LOG_MODE_LOG4J = 2 LOG_MODE_XJLOG = 3
Log.File	File for logging (full name). Used only for LOG_MODE_SIMPLE mode. Other log modes need specific configuration file (-s) that have to be available in the class path.
Log.MaxSize	Maximum log size in kb before logging to new file. Used only for LOG_MODE_SIMPLE mode. Other log modes need specific configuration file (-s) that have to be available in the class path.
Log.Level	Log level. Possible values: NONE = 0 ERROR = 1 WARNING = 2 INFO = 3 DEBUG = 4 Used only for LOG_MODE_SIMPLE mode. Other log modes need specific configuration file (-s) that have to be available in the class path.
Other codes (0.Details, 1.Details, GlobalFraudSignatureException.0...)	Error descriptions with extended information regarding server return codes in numbers.

Web service deployment

The Web service consists of the Web service archive file globalFraudSignatureWebService.aar and configuration file GFS_ws.properties.

Both of them have to be deployed into an Axis2 1.7.1 Web service container on a Web Application Server.

Axis2 Installation on a Tomcat web server:

- Copy axis2-1.7.1 war file (S:\dev\rel\shared\3rdparty\apache\axis2\1.7.1\axis2-1.7.1-war.zip) into TOMCAT/webapps.
- Restart Tomcat

Web service deployment:

- Copy globalFraudSignatureWebService.aar into TOMCAT/webapps/axis2/WEB-INF/services
- Copy GFS_ws.properties into TOMCAT/webapps/axis2/WEB-INF/classes
- Adjust configuration (SignBase Host, logging) in the GFS_ws.properties file
- Restart Tomcat

Chapter 2

Web service listing

Insert global fraud signature

This service is used to add a new Global Fraud Signature record.

Request Parameters

Parameter	Data type	Required	Minimum length	Typical maximum length	Absolute maximum length	Comments
USERID	String	Y	1	20	20	The unique identifier (key value) to be associated with the user (person)
PASSWORD	String	Y	1	16	16	The password of provided user
DOCUMENTID	String	Y				The unique document identifier
BNO	Integer	Y	3	3	3	Bank number
X_RES	Integer	Y	1	10	10	Image horizontal resolution
Y_RES	Integer	Y	1	10	10	Image vertical resolution
WIDTH	Integer	Y	1	10	10	Image width
HEIGHT	Integer	Y	1	10	10	Image height
DATESCANNED	Date	N	1	8	24 byte	Date when image was scanned
DATEVALID	Date	N	1	8	24 byte	Date until image will be valid

Parameter	Data type	Required	Minimum length	Typical maximum length	Absolute maximum length	Comments
DATEEXPIRY	Date	N	1	8	24 byte	Image expired date
DOCREFNO	String	N	1	30	30	Document reference number
COUNTRYID	String	N	3	3	3	Country identifier
BANKCODE	String	N	1	11	11	Bank code
CUSTOMERNO	String	N	1	34	34	Customer number
ACCTNO	String	N	1	34	34	Account number
IMAGE	Base64Binary	Y	1	2MB	DB-Limit	Image file

Response

Parameter	Data type	Required	Minimum length	Typical maximum length	Absolute maximum length	Comments
RETURNCODE	Number	Y	1	10	10	Numeric return code 0 – 255
DESCRIPTION	String	Y	1	1MB	1MB	Description of error code

Return codes

Numeric value	Description
0	Record processed successfully
1	Unexpected error occurred when processing the request
2	Requested data not found
11	Database is not implemented
31	Database is closed
32	Object with the ImageNo not found
33	General server problem
34	Request parameters invalid or inconsistent
35	Database problem
36	User not found
37	Wrong password
38	Database is modified

Numeric value	Description
39	Object with the DocumentId already exists
40	The server is busy
41	No data found for request
42	BNo or DocumentId is not provided or not authorized
43	Same user is verified
47	Customer is not allowed
48	Old version
49	User is disabled
50	User is not authorized
51	User is disabled
52	User is expired
53	Password is too short
54	Password should be reused
55	Password is expired
56	Schema is not found
59	Schema time limit
60	Too many objects
101	Not implemented
102	Maximum client count is exceeded
103	SPError request replaced be newer
104	Session is not found
105	Verify data
106	Data inconsistency
Others	SignBase errors (Communication, Database or Server Program errors)

Read global fraud signature list

This service is used to retrieve a list of all existing Global Fraud Signature records.

Request parameters

Parameter	Data type	Required	Minimum length	Typical maximum length	Absolute maximum length	Comments
USERID	String	Y	1	20	20	The unique identifier (key value) to be associated with the user (person)
PASSWORD	String	Y	1	16	16	The password of provided user
BNO	Integer	Y	3	3	3	Bank number

Response

Parameter	Data type	Required	Minimum length	Typical maximum length	Absolute maximum length	Comments
RETURNCODE	Number	Y	1	10	10	Numeric return code 0 – 255
DESCRIPTION	String	Y	1	1MB	1MB	Description of error code

Return codes

Numeric value	Description
0	Record processed successfully
1	Unexpected error occurred when processing the request
2	Requested data not found
11	Database is not implemented
31	Database is closed
32	Object with the ImageNo not found
33	General server problem
34	Request parameters invalid or inconsistent
35	Database problem
36	User not found
37	Wrong password
38	Database is modified
39	Object with the DocumentId already exists
40	The server is busy
41	No data found for request

Numeric value	Description
42	BNo or DocumentId is not provided or not authorized
43	Same user is verified
47	Customer is not allowed
48	Old version
49	User is disabled
50	User is not authorized
51	User is disabled
52	User is expired
53	Password is too short
54	Password should be reused
55	Password is expired
56	Schema is not found
59	Schema time limit
60	Too many objects
101	Not implemented
102	Maximum client count is exceeded
103	SPError request replaced be newer
104	Session is not found
105	Verify data
106	Data inconsistency
Others	SignBase errors (Communication, Database or Server Program errors)

Delete global fraud signature

This service is used to delete an existing Global Fraud Signature record.

Request parameters

Parameter	Data type	Required	Minimum length	Typical maximum length	Absolute maximum length	Comments
USERID	String	Y	1	20	20	The unique identifier (key value) to be associated with the user (person)

Parameter	Data type	Required	Minimum length	Typical maximum length	Absolute maximum length	Comments
PASSWORD	String	Y	1	16	16	The password of provided user
BNO	Integer	Y	3	3	3	Bank number
IMAGENO	String	Y	1	20	20	The unique identifier (key value) to be associated with the user (person)

Response

Parameter	Data type	Required	Minimum length	Typical maximum length	Absolute maximum length	Comments
RETURNCODE	Number	Y	1	10	10	Numeric return code 0 – 255
DESCRIPTION	String	Y	1	1MB	1MB	Description of error code

Return codes

Numeric value	Description
0	Record processed successfully
1	Unexpected error occurred when processing the request
2	Requested data not found
11	Database is not implemented
31	Database is closed
32	Object with the ImageNo not found
33	General server problem
34	Request parameters invalid or inconsistent
35	Database problem
36	User not found
37	Wrong password
38	Database is modified
39	Object with the DocumentId already exists
40	The server is busy
41	No data found for request

Numeric value	Description
42	BNo or DocumentId is not provided or not authorized
43	Same user is verified
47	Customer is not allowed
48	Old version
49	User is disabled
50	User is not authorized
51	User is disabled
52	User is expired
53	Password is too short
54	Password should be reused
55	Password is expired
56	Schema is not found
59	Schema time limit
60	Too many objects
101	Not implemented
102	Maximum client count is exceeded
103	SPError request replaced be newer
104	Session is not found
105	Verify data
106	Data inconsistency
Others	SignBase errors (Communication, Database or Server Program errors)

Chapter 3

Attachment 1

WSDL file

```
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions name="GlobalFraudSignature"
  targetNamespace="http://www.kofax.com/FraudOne/services/signbase/"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:tns="http://www.kofax.com/FraudOne/services/signbase/"
  xmlns:del="http://www.kofax.com/FraudOne/services/
DeleteGlobalFraudSignature"
  xmlns:ins="http://www.kofax.com/FraudOne/services/
InsertGlobalFraudSignature"
  xmlns:rd="http://www.kofax.com/FraudOne/services/
ReadGlobalFraudSignatureList"
  >
  <wsdl:types>
    <xsd:schema>
      <xsd:import namespace="http://www.kofax.com/FraudOne/services/
DeleteGlobalFraudSignature"
        schemaLocation="DeleteGFS.xsd"/>
    </xsd:schema>
    <xsd:schema>
      <xsd:import namespace="http://www.kofax.com/FraudOne/services/
InsertGlobalFraudSignature"
        schemaLocation="InsertGFS.xsd"/>
    </xsd:schema>
    <xsd:schema>
      <xsd:import namespace="http://www.kofax.com/FraudOne/services/
ReadGlobalFraudSignatureList"
        schemaLocation="ReadGFSL.xsd"/>
    </xsd:schema>
  </wsdl:types>

  <wsdl:message name="DeleteRequest">
    <wsdl:part name="DeleteRequest" element="del:DeleteRequest"/>
  </wsdl:message>
  <wsdl:message name="DeleteResponse">
    <wsdl:part name="DeleteResponse" element="del:DeleteResponse"/>
  </wsdl:message>

  <wsdl:message name="InsertRequest">
    <wsdl:part name="InsertRequest" element="ins:InsertRequest"/>
  </wsdl:message>
  <wsdl:message name="InsertResponse">
    <wsdl:part name="InsertResponse" element="ins:InsertResponse"/>
  </wsdl:message>
```

```

<wsdl:message name="ReadRequest">
  <wsdl:part name="ReadRequest" element="rd:ReadRequest"/>
</wsdl:message>
<wsdl:message name="ReadResponse">
  <wsdl:part name="ReadResponse" element="rd:ReadResponse"/>
</wsdl:message>

<wsdl:portType name="DeleteGlobalFraudSignatureInterface">
  <wsdl:operation name="DeleteGlobalFraudSignature">
    <wsdl:input message="tns:DeleteRequest"/>
    <wsdl:output message="tns:DeleteResponse"/>
  </wsdl:operation>
</wsdl:portType>

<wsdl:portType name="InsertGlobalFraudSignature">
  <wsdl:operation name="InsertGlobalFraudSignature">
    <wsdl:input message="tns:InsertRequest"/>
    <wsdl:output message="tns:InsertResponse"/>
  </wsdl:operation>
</wsdl:portType>

<wsdl:portType name="ReadGlobalFraudSignatureList">
  <wsdl:operation name="ReadGlobalFraudSignatureList">
    <wsdl:input message="tns:ReadRequest">
      </wsdl:input>
    <wsdl:output message="tns:ReadResponse">
      </wsdl:output>
    </wsdl:operation>
  </wsdl:portType>

  <wsdl:binding name="DeleteGlobalFraudSignatureSOAPBinding"
  type="tns:DeleteGlobalFraudSignatureInterface">
    <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/
http"/>
    <wsdl:operation name="DeleteGlobalFraudSignature">
      <soap:operation soapAction="http://www.kofax.com/FraudOne/services/
signatory/DeleteGlobalFraudSignature"/>
      <wsdl:input>
        <soap:body parts="DeleteRequest" use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body parts="DeleteResponse" use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>

  <wsdl:binding name="InsertGlobalFraudSignatureSOAPBinding"
  type="tns:InsertGlobalFraudSignature">
    <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/
http"/>
    <wsdl:operation name="InsertGlobalFraudSignature">
      <soap:operation soapAction="http://www.kofax.com/FraudOne/services/
signatory/InsertGlobalFraudSignature"/>
      <wsdl:input>
        <soap:body parts="InsertRequest" use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body parts="InsertResponse" use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>

  <wsdl:binding name="ReadGlobalFraudSignatureListSOAPBinding"
  type="tns:ReadGlobalFraudSignatureList">

```

```

    <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/
http"/>
    <wsdl:operation name="ReadGlobalFraudSignatureList">
      <soap:operation soapAction="http://www.kofax.com/FraudOne/services/
signatory/ReadGlobalFraudSignatureList"/>
      <wsdl:input>
        <soap:body part="ReadRequest" use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body parts="ReadResponse" use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>

  <wsdl:service name="DeleteGlobalFraudSignature">
    <wsdl:port name="DeleteGlobalFraudSignatureSOAPBinding"
binding="tns:DeleteGlobalFraudSignatureSOAPBinding">
      <soap:address location="http://localhost:8080/axis2/services/
DeleteGlobalFraudSignature"/>
    </wsdl:port>
  </wsdl:service>

  <wsdl:service name="InsertGlobalFraudSignature">
    <wsdl:port name="InsertGlobalFraudSignatureSOAPBinding"
binding="tns:InsertGlobalFraudSignatureSOAPBinding">
      <soap:address location="http://localhost:8080/axis2/services/
InsertGlobalFraudSignature"/>
    </wsdl:port>
  </wsdl:service>

  <wsdl:service name="ReadGlobalFraudSignatureList">
    <wsdl:port name="ReadGlobalFraudSignatureListSOAPBinding"
binding="tns:ReadGlobalFraudSignatureListSOAPBinding">
      <soap:address location="http://localhost:8080/axis2/services/
ReadGlobalFraudSignatureList"/>
    </wsdl:port>
  </wsdl:service>
</wsdl:definitions>

```

Insert global fraud signature schema

```

<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://www.kofax.com/FraudOne/services/InsertGlobalFraudSignature"
attributeFormDefault="unqualified"
elementFormDefault="qualified"
targetNamespace="http://www.kofax.com/FraudOne/services/
InsertGlobalFraudSignature">

  <element name="InsertRequest">
    <complexType>
      <sequence>
        <element name="RequestHeader" type="tns:RequestHeader" minOccurs="1"
maxOccurs="1"/>
        <element name="DocumentId" type="tns:DocumentIdType" minOccurs="1"/>
        <element name="BNo" type="tns:BnoType" minOccurs="1" maxOccurs="1"/>
        <element name="X_Res" type="integer" minOccurs="1" maxOccurs="1"/>
        <element name="Y_Res" type="integer" minOccurs="1" maxOccurs="1"/>
        <element name="Width" type="integer" minOccurs="1" maxOccurs="1"/>
        <element name="Height" type="integer" minOccurs="1" maxOccurs="1"/>
      </sequence>
    </complexType>
  </element>

```

```
        <element name="DateScanned" type="date" minOccurs="0" maxOccurs="1"/>
        <element name="DateValid" type="date" minOccurs="0" maxOccurs="1"/>
        <element name="DateExpiry" type="date" minOccurs="0" maxOccurs="1"/>
        <element name="DocRefNo" type="tns:DocRefNoType" minOccurs="0"
maxOccurs="1"/>
        <element name="CountryId" type="tns:CountryIdType" minOccurs="0"
maxOccurs="1"/>
        <element name="BankCode" type="tns:BankcodeType" minOccurs="0"
maxOccurs="1"/>
        <element name="CustomerNo" type="tns:CustomerNoType" minOccurs="0"
maxOccurs="1"/>
        <element name="AcctNo" type="tns:AcctNoType" minOccurs="0"
maxOccurs="1"/>
        <element name="Image" type="base64Binary" minOccurs="1" maxOccurs="1"/>
    </sequence>
</complexType>
</element>

<complexType name="RequestHeader">
    <sequence>
        <element name="UserName" type="tns:UserNameType" minOccurs="1"
maxOccurs="1"/>
        <element name="Password" type="tns>PasswordType" minOccurs="1"
maxOccurs="1"/>
    </sequence>
</complexType>

<element name="InsertResponse">
    <complexType>
        <sequence>
            <element name="ResultResponse" type="tns:ResultResponseType"
minOccurs="1" maxOccurs="1"/>
        </sequence>
    </complexType>
</element>

<complexType name="ResultResponseType">
    <sequence>
        <element name="ReturnCode" type="int" minOccurs="1" maxOccurs="1"/>
        <element name="ReturnCodeDetails" type="string" minOccurs="1"
maxOccurs="1"/>
        <element name="ImageNo" type="integer" minOccurs="0" maxOccurs="1"/>
    </sequence>
</complexType>

<simpleType name="UserNameType">
    <restriction base="string">
        <minLength value="1"/>
        <maxLength value="20"/>
    </restriction>
</simpleType>

<simpleType name="PasswordType">
    <restriction base="string">
        <minLength value="1"/>
        <maxLength value="16"/>
    </restriction>
</simpleType>

<simpleType name="DocumentIdType">
    <restriction base="string">
        <minLength value="1"/>
        <maxLength value="30"/>
    </restriction>
</simpleType>
```

```

</simpleType>

<simpleType name="BnoType">
  <restriction base="string">
    <length value="3"/>
  </restriction>
</simpleType>

<simpleType name="DocRefNoType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="30"/>
  </restriction>
</simpleType>

<simpleType name="CountryIdType">
  <restriction base="string">
    <length value="3"/>
  </restriction>
</simpleType>

<simpleType name="BankcodeType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="11"/>
  </restriction>
</simpleType>

<simpleType name="CustomerNoType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="34"/>
  </restriction>
</simpleType>

<simpleType name="AcctNoType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="34"/>
  </restriction>
</simpleType>
</schema>

```

Read global fraud signature list schema

```

<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:tns="http://www.kofax.com/FraudOne/services/ReadGlobalFraudSignatureList"
  attributeFormDefault="unqualified"
  elementFormDefault="qualified"
  targetNamespace="http://www.kofax.com/FraudOne/services/
ReadGlobalFraudSignatureList">
  <element name="ReadRequest">
    <complexType>
      <sequence>
        <element name="RequestHeader" type="tns:ReadRequestHeader"
minOccurs="1" maxOccurs="1"/>
        <element name="BNo" type="tns:BnoTypeRead" minOccurs="1" maxOccurs="1"/>
      </sequence>
    </complexType>
  </element>
</schema>

```

```

        </sequence>
    </complexType>
</element>

<complexType name="ReadRequestHeader">
    <sequence>
        <element name="UserName" type="tns:UserNameType" minOccurs="1"
maxOccurs="1"/>
        <element name="Password" type="tns:PasswordType" minOccurs="1"
maxOccurs="1"/>
    </sequence>
</complexType>

<simpleType name="BnoTypeRead">
    <restriction base="string">
        <length value="3"/>
    </restriction>
</simpleType>

<element name="ReadResponse">
    <complexType>
        <sequence>
            <element name="ReturnCode" type="int" minOccurs="1" maxOccurs="1"/>
            <element name="ReturnCodeDetails" type="string" minOccurs="1"
maxOccurs="1"/>
            <element name="RecordsList" type="tns:RecordsList" minOccurs="0"
maxOccurs="1"/>
        </sequence>
    </complexType>
</element>

<complexType name="RecordsList">
    <sequence>
        <element name="Record" type="tns:RecordType" minOccurs="0" maxOccurs="20" /
>
    </sequence>
</complexType>

<complexType name="RecordType">
    <sequence>
        <element name="ImageNo" type="string"/>
        <element name="DocumentId" type="tns:DocumentIdType" minOccurs="0"/>
        <element name="BNo" type="tns:BnoType" minOccurs="0"/>
        <element name="X_Res" type="integer" minOccurs="0"/>
        <element name="Y_Res" type="integer" minOccurs="0"/>
        <element name="Width" type="integer" minOccurs="0"/>
        <element name="Height" type="integer" minOccurs="0"/>
        <element name="DateScanned" type="date" minOccurs="0"/>
        <element name="DateValid" type="date" minOccurs="0"/>
        <element name="DateExpiry" type="date" minOccurs="0"/>
        <element name="DocRefNo" type="tns:DocRefNoType" minOccurs="0"/>
        <element name="CountryId" type="tns:CountryIdType" minOccurs="0"/>
        <element name="BankCode" type="tns:BankcodeType" minOccurs="0"/>
        <element name="CustomerNo" type="tns:CustomerNoType" minOccurs="0"/>
        <element name="AcctNo" type="tns:AcctNoType" minOccurs="0"/>
    </sequence>
</complexType>

<simpleType name="UserNameType">
    <restriction base="string">
        <minLength value="1"/>
        <maxLength value="20"/>
    </restriction>
</simpleType>

```

```
<simpleType name="PasswordType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="16"/>
  </restriction>
</simpleType>

<simpleType name="DocumentIdType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="30"/>
  </restriction>
</simpleType>

<simpleType name="BnoType">
  <restriction base="string">
    <length value="3"/>
  </restriction>
</simpleType>

<simpleType name="DocRefNoType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="30"/>
  </restriction>
</simpleType>

<simpleType name="CountryIdType">
  <restriction base="string">
    <length value="3"/>
  </restriction>
</simpleType>

<simpleType name="BankcodeType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="11"/>
  </restriction>
</simpleType>

<simpleType name="CustomerNoType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="34"/>
  </restriction>
</simpleType>

<simpleType name="AcctNoType">
  <restriction base="string">
    <minLength value="1"/>
    <maxLength value="34"/>
  </restriction>
</simpleType>

</schema>
```

Delete global fraud signature schema

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<schema xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:tns="http://www.kofax.com/FraudOne/services/DeleteGlobalFraudSignature"
  attributeFormDefault="unqualified"
  elementFormDefault="qualified"
  targetNamespace="http://www.kofax.com/FraudOne/services/
DeleteGlobalFraudSignature">

  <element name="DeleteRequest">
    <complexType>
      <sequence>
        <element name="RequestHeader" type="tns:RequestHeader" minOccurs="1"
maxOccurs="1"/>
        <element name="ImageNo" type="integer" minOccurs="1"/>
        <element name="BNo" type="tns:BnoTypeDelete" minOccurs="1"
maxOccurs="1"/>
      </sequence>
    </complexType>
  </element>

  <complexType name="RequestHeader">
    <sequence>
      <element name="UserName" type="tns:UserNameType" minOccurs="1"
maxOccurs="1"/>
      <element name="Password" type="tns>PasswordType" minOccurs="1"
maxOccurs="1"/>
    </sequence>
  </complexType>

  <element name="DeleteResponse">
    <complexType>
      <sequence>
        <element name="ReturnCode" type="int" minOccurs="1" maxOccurs="1"/>
        <element name="ReturnCodeDetails" type="string" minOccurs="1"
maxOccurs="1"/>
      </sequence>
    </complexType>
  </element>

  <simpleType name="UserNameType">
    <restriction base="string">
      <minLength value="1"/>
      <maxLength value="20"/>
    </restriction>
  </simpleType>

  <simpleType name="PasswordType">
    <restriction base="string">
      <minLength value="1"/>
      <maxLength value="16"/>
    </restriction>
  </simpleType>

  <simpleType name="BnoTypeDelete">
    <restriction base="string">
      <length value="3"/>
    </restriction>
  </simpleType>
</schema>
```


Chapter 4

Attachment 2

This attachment contains examples of requests and responses.

Insert global fraud signature

Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:ins="http://www.kofax.com/FraudOne/services/InsertGlobalFraudSignature">
  <soapenv:Header/>
  <soapenv:Body>
    <ins:InsertRequest>
      <ins:RequestHeader>
        <ins:UserName>softpro</ins:UserName>
        <ins>Password>softpro</ins>Password>
      </ins:RequestHeader>
      <ins:DocumentId>1234567523</ins:DocumentId>
      <ins:BNo>001</ins:BNo>
      <ins:X_Res>100</ins:X_Res>
      <ins:Y_Res>100</ins:Y_Res>
      <ins:Width>100</ins:Width>
      <ins:Height>100</ins:Height>
      <ins:DateScanned>2016-04-14</ins:DateScanned>
      <ins:DateValid>2016-04-14</ins:DateValid>
      <ins:DateExpiry>2016-04-14</ins:DateExpiry>
      <ins:DocRefNo>111</ins:DocRefNo>
      <ins:CountryId>001</ins:CountryId>
      <ins:BankCode>010</ins:BankCode>
      <ins:CustomerNo>123</ins:CustomerNo>
      <ins:AcctNo>002</ins:AcctNo>
      <ins:Image>SUKqAAgAAAAAABAwABAAAAkAYAAAEBAwABAAAAuAIAAABAwABAAAAQAAAAABAw
      ABAAAAABAAAAAYBAwABAAAAAABEBBAAABAAAAArgAAABIBAwABAAAAQAAABYBAwABAAAAuAIAABcBBAB
      AAAAapiwAABoBBQABAAAANGAAABsBBQABAAApgAAACgBAwABAAAAAAGAAAAAADIAAAAAQAAAMgAAAAABAAA
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      IIGOP6Ld//x9BBv/mn/0/176/////////7//v/ktB//v/7DS/2GEvPZ7+x/7Hr69heuGF//H/HZDX//v/a
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      HIML/j/f/a+3+QJ//hhfr/IIzcfYr4XlUvi+GFqP2v8fKj+LyqZu+4Xwb//yFzgw//5SF7B/9cfh/8ggJ/
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```

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```
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</ins:InsertRequest>
</soapenv:Body>
</soapenv:Envelope>
```

Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <ns2:InsertResponse xmlns:ns2="http://www.kofax.com/FraudOne/services/
InsertGlobalFraudSignature">
      <ns2:ResultResponse>
        <ns2:ReturnCode>0</ns2:ReturnCode>
        <ns2:ReturnCodeDetails>Request processed successfully.</
ns2:ReturnCodeDetails>
      </ns2:ResultResponse>
    </ns2:InsertResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

Read global fraud signature list

Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:read="http://www.kofax.com/FraudOne/services/ReadGlobalFraudSignatureList">
  <soapenv:Header/>
  <soapenv:Body>
    <read:ReadRequest>
      <read:RequestHeader>
        <read:UserName>softpro</read:UserName>
        <read:Password>softpro</read:Password>
      </read:RequestHeader>
      <read:BN0>001</read:BN0>
    </read:ReadRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Response

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <ns3:ReadResponse xmlns:ns3="http://www.kofax.com/FraudOne/services/
ReadGlobalFraudSignatureList">
      <ns3:ReturnCode>0</ns3:ReturnCode>
      <ns3:ReturnCodeDetails>Request processed successfully.</ns3:ReturnCodeDetails>
    </ns3:ReadResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```

<ns3:RecordsList>
  <ns3:Record>
    <ns3:ImageNo>3</ns3:ImageNo>
    <ns3:DocumentId>DAISY001</ns3:DocumentId>
    <ns3:BNo>001</ns3:BNo>
    <ns3:X_Res>96</ns3:X_Res>
    <ns3:Y_Res>96</ns3:Y_Res>
    <ns3:Width>119</ns3:Width>
    <ns3:Height>40</ns3:Height>
    <ns3:DocRefNo>001</ns3:DocRefNo>
  </ns3:Record>
  <ns3:Record>
    <ns3:ImageNo>8</ns3:ImageNo>
    <ns3:BNo>001</ns3:BNo>
    <ns3:X_Res>0</ns3:X_Res>
    <ns3:Y_Res>0</ns3:Y_Res>
    <ns3:Width>5</ns3:Width>
    <ns3:Height>4</ns3:Height>
    <ns3:DateScanned>2016-04-01+03:00</ns3:DateScanned>
    <ns3:DateExpiry>2016-05-31+03:00</ns3:DateExpiry>
    <ns3:DocRefNo>aaa</ns3:DocRefNo>
  </ns3:Record>
</ns3:RecordsList>
</ns3:ReadResponse>
</soapenv:Body>
</soapenv:Envelope>

```

Delete global fraud signature

Request

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:del="http://www.kofax.com/FraudOne/services/DeleteGlobalFraudSignature">
  <soapenv:Header/>
  <soapenv:Body>
    <del>DeleteRequest>
      <del:RequestHeader>
        <del:UserName>softpro</del:UserName>
        <del>Password>softpro</del>Password>
      </del:RequestHeader>
      <del:ImageNo>3223679</del:ImageNo>
      <del:BNo>001</del:BNo>
    </del>DeleteRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

Response

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <ns1>DeleteResponse xmlns:ns1="http://www.kofax.com/FraudOne/services/
DeleteGlobalFraudSignature">
      <ns1:ReturnCode>0</ns1:ReturnCode>
      <ns1:ReturnCodeDetails>Request processed successfully.</ns1:ReturnCodeDetails>
    </ns1>DeleteResponse>
  </soapenv:Body>
</soapenv:Envelope>

```