



Einvoice Bank Service

(Version v03)

Technical Specification

Versions

Version	Date	Description of Change
v01	28.10.2020	Initial Version
V02	11.02.2021	Updated with XML requests and responses
V03	22.03.2021	Updated xsd schema: Added new attributes in PaymentNotificationItemType (OverpaidAmt and TransactionCode) Added new attribute in SetPaymentNotificationRequestHeaderType (Source) Modified payment order XML response, content replaced with signed order in Base64 encoding. Added TotalAmt attribute in order XML response.

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1. Introduction

This document provides technical specification for the EInvoice Bank service. Files containing definitions of XML schema are shown as annexes at the end of the document.

1.1 ABBREVIATIONS

Abbreviation	Description	Terminology used in the Law (if it is different)
CA	Certificate Authority	-
FIC	Fiscal Identification Code (generated at server side after successful verification of the invoice)	UII – Unique invoice identifier
GUID	Global Unique Identifier	-
NUIS	National Unique Identification Number	NUIS/NIPT
OCSP	On-Line Certificate Status Protocol	-
SOAP	Message exchange protocol for XML messages as specified at: https://www.w3.org/TR/soap/	-
UUID	Universally Unique Identifier	-
WSDL	Web Services Description Language –XML-based language for description of functions offered by a WWW service as specified at http://www.w3.org/TR/wsdl	-
XML Schema	A XML-based language intended for definition of XML document structure as specified at http://www.w3.org/TR/xmlschema11-1/ and https://www.w3.org/TR/xmlschema11-2/	-

1.2 TERMS

Term	Definition	Terminology used in the Law (if it is different)
Response data message	A data structure in a defined format prescribed by the financial authority, which contains the Fiscal Identification Code (FIC) and is used as acknowledgement of invoice and formal correctness of the registered invoice data message sent.	A data structure in a defined format prescribed by the financial authority, which contains Unique invoice identifier (UII) and is used as acknowledgement of invoice and formal correctness of the registered invoice data message sent.
Error Data Message	A data structure in a defined format prescribed by the financial authority, which contains an error code and its text description as a reaction to a registered invoice data message received containing critical errors preventing it from being processed, or when another error occurs which prevents the message being processed at the tax authority's side.	-

2. Environments

The government will publish Web service addresses for two types of environments: production environment and one or more test environments:

- **Non-production environment** will be used solely by software developers (developing software for cash registers), not by end users.
- **Production environment** is intended for the users and will be used for routine operations.

Endpoints:

- Test environment:
 - <https://einvoice-test.tatime.gov.al/EinvoiceBankService-v1/EinvoiceBankService.wsdl>
- Production environment:
 - <https://einvoice.tatime.gov.al/EinvoiceBankService-v1/EinvoiceBankService.wsdl>

2.1 TOPOLOGY

Users access by initiating 1-way TLS connection. Data exchange is synchronous, meaning access point answers on user's request immediately. Request and response messages formats are specified through XML schema.

2.1.1 SECURITY PRECONDITIONS

All communication is protected by 1-way TLS encryption at the transport layer. In production environment system presents itself to client with a TLS certificate issued by NAIS production CA, while in test environment the certificate is issued by NAIS test CA.

Protection at the transport layer	HTTPS (TLS v1.1 and v1.2, AES_256 encryption at least)
Certificates for the electronic signing	Certificate type: application digital certificate for fiscalization

2.1.2 APPLICATION PRECONDITIONS

Functionality is available to its clients using web-service technology. For that reason, client's application (or infrastructure, depending on realization) needs to fulfil these preconditions:

Client creation standards	WS-1
Service type	Document-literal
Application protocol	SOAP/HTTPS (SOAP 1.1)
Code site of the request message XML	UTF-8

3. Interface

3.1 PAYMENT ORDER

3.1.1 PAYMENT ORDER REQUEST DATA MESSAGE

Name		Field type	Occurrence [Min, Max]	Description
PaymentOrderRequest		Element	[1, 1]	Root XML element representing request for payment order.
	Id	Attribute	[1, 1]	Attribute used for signature creation and verification. Fixed value "Request".
	Version	Attribute	[1,1]	Attribute used to specify compliance with XSD schema. For this version fixed value is "1".
Header		Element	[1, 1]	XML element representing header...
	UUID	Attribute	[1, 1]	ID of the message.
	SendDateTime	Attribute	[1, 1]	Date and time of sending the message to the Tax administration.
Signature		Element	[1, 1]	XML element with digital signature.

Table 1

3.1.1.1 Header

Element representing the header of the request data message.

3.1.1.2 Header UUID

Element generated by the service. It uniquely identifies the request message. UUID should be constructed according to the RFC4122 version 4.

Data type	string
Length	36 characters
Pattern	[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}
Example	58e0a7d7-eebc-41d8-9669-0800200c9a66 58E0A7D7-EEBC-41D8-9669-0800200C9A66

Table 2

3.1.1.3 Header SendDateTime

Element represents date and time of sending the request message to the CIS. Date and time should be in ISO 8601 format.

Data type	dateTime
Pattern	[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}[+-][0-9]{2}:[0-9]{2}
Example	2020-03-21T14:25:23+01:00

Table 3

3.1.1.4 Signature

XML element stores enveloped digital signature described in chapter 4.1.

3.1.2 PAYMENT ORDER XML REQUEST

```
<?xml version="1.0" encoding="UTF-8"?>
<GetPaymentOrderRequest xmlns="https://Einvoice.tatime.gov.al/EinvoiceBankService/schema"
  Id="Request"
  Version="1">
  <Header UUID="1985dab2-b5c4-44bc-9aea-94656b423026"
    SendDateTime="2020-03-21T14:25:23+01:00"/>
  <Signature xmlns="http://www.w3.org/2000/09/xmldsig#">
    <SignedInfo>
      <CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
      <SignatureMethod Algorithm="http://www.w3.org/2001/04/xmldsig-more#rsa-sha256"/>
      <Reference URI="#Request">
        <Transforms>
          <Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"/>
          <Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
        </Transforms>
        <DigestMethod Algorithm="http://www.w3.org/2001/04/xmldsig-more#sha256"/>
        <DigestValue>MXy1WA4aM6uHd7U.....Tk/7WhZVSFrDy=</DigestValue>
      </Reference>
    </SignedInfo>
    <SignatureValue>LkYz3tG8UJZgT858yixD.....eaFhiyAtXMC5IwsxOQ==</SignatureValue>
    <KeyInfo>
      <X509Data>
        <X509Certificate>MIIFXTCCBEWgAwI.....9YgB5FUndXwxD+7sB</X509Certificate>
      </X509Data>
    </KeyInfo>
  </Signature>
</GetPaymentOrderRequest>
```

3.1.3 PAYMENT ORDER RESPONSE DATA MESSAGE

Name	Field type	Occurrence [Min, Max]	Description
PaymentOrderResponse	Element	[1, 1]	Root XML element representing response for payment order.
Id	Attribute	[1, 1]	Attribute used for signature creation and verification. Fixed value "Response".
Version	Attribute	[1,1]	Attribute used to specify compliance with XSD schema. For this version fixed value is "1".
Header	Element	[1, 1]	XML element representing header...
UUID	Attribute	[1, 1]	ID of the message.
SendDateTime	Attribute	[1, 1]	Date and time of sending the message to the Tax administration.
PymtOrds	Element	[1,1]	List of all orders on the invoice
PymtOrd	Element	[1,100]	Details of one order encoded as base64 string
Signature	Element	[1, 1]	XML element with digital signature.

Table 4

3.1.3.1 Header

3.1.3.2 Header UUID

Data type	string
Length	36 characters
Pattern	[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}
Example	58e0a7d7-eebc-41d8-9669-0800200c9a66 58E0A7D7-EEBC-41D8-9669-0800200C9A66

Table 5

3.1.3.3 Header SendDateTime

Data type	dateTime
Pattern	[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}[+-][0-9]{2}:[0-9]{2}
Example	2020-03-21T14:25:23+01:00

Table 6

3.1.3.4 PymtOrds

XML element representing a list of payment orders

3.1.3.5 PymtOrds PymtOrd

Base64 encoded XML element representing a sing payment order. Payment order XML is represented with following elements and attributes.

Name		Field type	Occurrence [Min, Max]	Description
PymtOrd		Element	[1,100]	Details of one order
	Id	Attribute	[1,1]	Attribute used for signature creation and verification. Fixed values "Order".
	PymtOrdNum	Attribute	[1,1]	Order number in ordinal number / year format.
	PymtOrdDatTimSend	Attribute	[1,1]	Date and time of sending the message.
	PayerNipt	Attribute	[1,1]	NIPT of the payer.
	PayerName	Attribute	[1,1]	Payer full name.
	PayerAddr	Attribute	[0,1]	Payer full address.
	PayerBnkCode	Attribute	[1,1]	Payer's bank code.
	PayerBnkName	Attribute	[1,1]	Payer's bank full name.
	StatusOrd	Attribute	[0,1]	Status of the order.
	TotalAmt	Attribute	[1,1]	Sum of PymtOrdIt.AmtToBePaid attributes
	PymtOrdIts	Element	[1,1]	List of items of a single order.
	PymtOrdIt	Element	[1,100]	Single item of an order.
		EinFic	[1,1]	FIC of the einvoice in question.
		EinDatTim	[1,1]	Date and time of the einvoice.
		EinNum	[1,1]	Ordinal number of the einvoice.
		EinPymtRefNum	[0,1]	Reference to the payment.
		EinAmt	[1,1]	Amount on the invoice.
		EinCur	[1,1]	Currency used on the invoice.
		EinPymtDesc	[1,1]	Description of the payment.
		PymtRecNipt	[1,1]	NIPT of the recipient.
		PymtRecName	[1,1]	Recipient name.
		PymtRecAddr	[1,1]	Recipient address.
		PymtRecIBAN	[1,1]	Recipient IBAN.
		PayerIBAN	[1,1]	Payer IBAN.
		DatTimPymt	[1,1]	Payment date and time.
		AmtToBePaid	[1,1]	Amount of the invoice.
		CurToBePaid	[1,1]	Currency that invoice is paid in.
	Signature	Element	[1,1]	XML element with digital signature.

Table 7

3.1.3.5.1 PymtOrd PymtOrdNum

Payment order number composed of ordinal number and calendar year.

Data type	string
Length	30 characters

Pattern	[1-9]{1}[0-9]{0,14}\/[0-9]{4}
Example	1/2020

Table 8

3.1.3.5.2 PymtOrd PymtOrdDatTimSend

Date and time of sending an order.

Data type	dateTime
Pattern	[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}[+-][0-9]{2}:[0-9]{2}
Example	2020-03-21T14:25:23+01:00

Table 9

3.1.3.5.3 PymtOrd PayerNipt

NUIS of the payer.

Data type	string
Length	10 characters
Pattern	[A-Z]{1}[0-9]{8}[A-Z]{1}
Example	I12345678Q

Table 10

3.1.3.5.4 PymtOrd PayerName

Payer's full name.

Data type	string
Length	100 characters
Example	Name Surname

Table 11

3.1.3.5.5 PymtOrd PayerAddr

Payer's full address.

Data type	string
Length	200 characters
Example	Full address

Table 12

3.1.3.5.6 PymtOrd PayerBnkCode

Code of the payer's bank.

Data type	string
Length	30 characters
Example	ALLBPLPW

Table 13

3.1.3.5.7 PymtOrd PayerBnkName

Full name of the payer's bank.

Data type	string
Length	200 characters
Example	Bank full name

Table 14

3.1.3.5.8 PymtOrd StatusOrd

Status of the order.

Data type	string
Values	Enumeration, described in the table below.
Example	REGULAR

Table 15

Following table shows the list of allowed values inside of the StatusOrd attribute:

Value	Description
REGULAR	Order is regular.
URGENT	Order is urgent.

Table 16

3.1.3.5.9 PymtOrd TotalAmt

Sum of all PymtOrdIt.AmtToBePaid attribute values.

Data type	decimal
Length	20 characters
Pattern	([1-9][0-9]* 0)\.[0-9]{2} 0"
Example	10.50 -10.50

Table 17

3.1.3.5.10 PymtOrd PymtOrdIs

XML element representing a list of payment order items.

3.1.3.5.11 PymtOrd PymtOrdIs PymtOrdI

XML element representing a single payment order item.

3.1.3.5.12 PymtOrd PymtOrdIs PymtOrdI EinvFic

Invoice FIC.

Data type	string
Length	36 characters
Pattern	[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}
Example	58e0a7d7-eebc-41d8-9669-0800200c9a66 58E0A7D7-EEBC-41D8-9669-0800200C9A66

Table 18

3.1.3.5.13 PymtOrd PymtOrdIs PymtOrdI EinDatTim

Date and time of the invoice.

Data type	dateTime
Pattern	[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}[+-][0-9]{2}:[0-9]{2}
Example	2020-03-21T14:25:23+01:00

Table 19

3.1.3.5.14 PymtOrd PymtOrdIs PymtOrdI EinNum

Number of the invoice.

Data type	string
Length	30 characters
Example	10

Table 20

3.1.3.5.15 PymtOrd PymtOrdIs PymtOrdI EinPymtRefNum

Invoice payment reference number.

Data type	string
Length	30 characters
Example	15

Table 21

3.1.3.5.16 PymtOrd PymtOrdIs PymtOrdI EinAmt

Amount of the invoice.

Data type	decimal
Length	20 characters
Pattern	([1-9][0-9]* 0)\.[0-9]{2} 0"
Example	10.50 -10.50

Table 22

3.1.3.5.17 PymtOrd PymtOrdIs PymtOrdI EinCur

Currency of the invoice payment.

Data type	string
Constraint	Enumeration, described in the table below.
Example	EUR

Table 23

Enumeration values for currencies are shown in table below. Full list of currencies can be found in chapter 0.

Value	Description
-------	-------------

ALL	Albanian lek
EUR	Euro
GRD	Greek drachma
MKD	Macedonian denar
TRY	Turkish lira
BGN	Bulgarian lev
BAM	Bosnia and Herzegovina convertible mark
HRK	Croatian kuna
...	...

Table 24

3.1.3.5.18 PymtOrd PymtOrdIs PymtOrdI EinPymtDesc

Description of the invoice payment.

Data type	string
Length	1000 characters
Example	This is the invoice payment description.

Table 25

3.1.3.5.19 PymtOrd PymtOrdIs PymtOrdI PymtRecNipt

NUIS of the payment recipient.

Data type	string
Length	10 characters
Pattern	[A-Z]{1}[0-9]{8}[A-Z]{1}
Example	I12345678Q

Table 26

3.1.3.5.20 PymtOrd PymtOrdIs PymtOrdI PymtRecName

Name of the payment recipient.

Data type	string
Length	100 characters
Example	Recipient name

Table 27

3.1.3.5.21 PymtOrd PymtOrdIs PymtOrdI PymtRecipAddr

Address of the payment recipient.

Data type	string
Length	200 characters
Example	Recipient address

Table 28

3.1.3.5.22 PymtOrd PymtOrdIs PymtOrdI PymtRecipIBAN

IBAN of the payment recipient.

Data type	string
Length	28 characters
Pattern	AL[0-9]{10}[0-9A-Z]{16}
Example	AL35202111090000000001234567

Table 29

3.1.3.5.23 PymtOrd PymtOrdIs PymtOrdI PayerIBAN

IBAN of the payer.

Data type	string
Length	28 characters
Pattern	AL[0-9]{10}[0-9A-Z]{16}
Example	AL35202111090000000001234567

Table 30

3.1.3.5.24 PymtOrd PymtOrdIs PymtOrdI DatTimPymt

Date and time of the payment.

Data type	dateTime
Pattern	[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}[+-][0-9]{2}:[0-9]{2}
Example	2020-03-21T14:25:23+01:00

Table 31

3.1.3.5.25 PymtOrd PymtOrdIs PymtOrdI AmtToBePaid

Amount that needs to be paid.

Data type	decimal
Length	20 characters
Pattern	([1-9][0-9]* 0)\.[0-9]{2} 0"
Example	10.50 -10.50

Table 32

3.1.3.5.26 PymtOrd PymtOrdIs PymtOrdI CurToBePaid

Currency that will be used for paying the invoice.

Data type	string
Constraint	Enumeration, described in the table below.
Example	EUR

Table 33

Enumeration values for currencies are shown in table below. Full list of currencies can be found in chapter 0.


```

5mbz48U21nbf0dXJ1VmfSdWU+SGV6Nm90S2hKwWJqan1zR0h5Q093Q3dQ0DdtSnVIZ1krWfNUHUVMEN4M1NQQ21me1cyN1ErUnVKSDVDeHJIZmUrNXdIVExSZVRXuiYjeEQ7CjQ3VndT
UEX6VGpmQ29BUi90NXFOUMFmc3VLajbHYWh0cWRYeV1Xa09pRU5BdHNTMkwvOTZM0DFBvL21CV2FPbzFHR1RtRFFwTUN2a1kmI3hEOwpXZFBLSVBpWorXZFVU51S1NqQ2ZXdz1oR3NYb0
1hRG65Gukx1ME5sOT1vbVbHNeTnL0h4WUwVj16NDBt1B6dHFudmpa5F1hWmYj1n4RDsKSUFHd113M1B8TOMgVvOHk5ZFUXcThQaXaYbjZjUXVDSGS3RUJ3GUMU5VzNjCwtIR1VGZnJpTWOz
RWRNcTNVOWxUTk1JTERHOUF2RVRN1TiYjeEQ7Ck1HdFY2N01ja2E2AFVGy3JRWDNwcFppV0R4NjVUMVvc1CUFoMkd3PT08L1Np2Z5hdHvyZVZhbHVPjXl2X1JbmZvPjXvNTA5RGf0YT48MD
UwOUN1cnRpZm1jYXR1Pk1JSUZFRENDQXpZp0F3SUJBZ01DRUJvd0RRRwUpLb1pJaHZjTkFRRUxCUUF3V0RFTe1B80dBWVVFQmhnQ1NGSxhFREFPQmdOVKjBZ00mI3hEOwPCME55YjJGGMFX
RXhGREFTQmd0VkJBb01DMDVGDFNZ1pDNXZMbTh1TVNFd0h3WURWUwVFEREJoT1JVOVRJR1F1Ynk1dkxpcQkpib1J3JiN4RDsKY20xbFpHbGhkR1V3SGhjTk1qQXd0REZTURrek1UQTRXaG
NOTWpnd05EQTFNRGT6TVRBNFdqQjJNUXN3Q1FZRFZRUdF0pCVERFUSYjeEQ7Ck1BNEdbMVVVFQ0F35FFXegL2VzVwWVRFE1BMEdbMVVVFQnd3R1ZHBh1ZVzVoTVE4d0RRRwUwVFLREFA
S1pXaH2ibUv4RHp8TjNt1YmI3hEOwPCQU1NqmtwbGFHOXVZVEVUTUJFR0ExVUVCQXdLVERReU1qQX1NREk0VmpFTk1Bc0dBWVVFREF3RVZHvNpKRENDQVNjD0RRWUplb1pJJiN4RDsKaH
ZjTtFRRUJCUUFEZ2dFUEFEQ0NBW9DZ2dFQkFLK0RmOW0wOEZTNDZMM2pzVjdCenppV2VaaXc5SUFdVbS9kwm1VWU2di9naG1LViYjeEQ7C1pHcDjyUDdwRGdzYk9GLzRvaUpRumw5Tudp
SXZidHprVE9Nb1pUbmVhT0PTk1CVGQ2dj1jYzJLckxSEJJOwPET2NNDZzEkRmeXMMI3hEOwpa0ZyRzJjTHFKe11MzZRZmNPU0JXyMvSRUj0NGNqYkHxSUJUU0JF52JUR2x0e1RRaV
Z4ZWRJTtBMN2NxrFgyMHhINFHwWjBGUThaJiN4RDsKVW1vODIxQnJ1azQrV2xLMTF1dE91RHpkBGFUDINXy1EzNvpS50JjUnpSd0JTamg0eFRXUFPj5F1XZG1HWTBVCV2E1ZU1aSzVQbkRT
YyYjeEQ7CjQ30FA5bUo2THQ1endqQ1IvU1jz0Dk0MwxxSj1jazVnQ1NZdmM20HdJL0h0aDN1R11HVSTiC1IY2tha3FkS2RpnXNDQXdFQUFhT0ImI3hEOwP4VENCd2pBSk1JnT1Z1Uk1FQW
pBQU1CRUDV0NHU0FHRYTFSUJBUVFQXDRm9EQXpCZ2xnaGtnQmh2aENBUTBF8SmhZa1QzQmxibE5UJiN4RDsKVENCSPXNwXjbUyWw1dRZ1EYeHbAvZUwSUV0bGnuUnBabWxqVhSbE1C
MEdbMVVvKgdRV0JCVD1BRTgydj1Ud2sVGRiM1JrK3FNaCYjeEQ7CjhnTFJYVEFMQmdOVKhTUVHREFXZ0JTN2E5Z3VkvXZaVFRwM2NwXRRcUETmNEC9U6QU9CZ05WSFE4QkFmOEVCQU
1DQmVbD0hRWUQmI3hEOwPwUjBsQkJZd0Z8WU1d11CQ1FVSEF3SudDQ3NHQVFRKJ3TUVNQTbHQ1Nxr1NJyJNEUUVQ3dVQUE0SUNBUUNKWtFakVSRkFZcmx0JiN4RDsKZUdKMitSUF1B
UFZfb2ZaWpDN21JWkVLUUFockt0cHU3eU9Zek1ZeGtOLz1Ka2R1WmFrM3UzTw10XoyU3BPcjlWdUdVdTrX1sbsYjeEQ7Cna4ZWNL2TRLWjBiYXMA0G1SSUNoNuXqRzBWeUzJaE9JRE
c5WEcrazNsawxxbFpQUmWZESMK201SUJBV11Q3Z4M3RDVKzVzMFp0WmImI3hEOwPKWm0MTZMNk1rUXFYT0HJjB6SvdtVJUU1ZWmZFuZ1Y1RcTEV0hJsktXK0JTK0FRBEZTM1s5TTBu
b01FmN1TUVJjaJRGR1pvaHo0JiN4RDsKVQVPdJJKQT1Sej15N1Npc3NweEFGY1poQGMZU1A5K25nMEF6b1NiQzBhQpMmPjYrUjBURzRWNTVSR0Kuc11iZd3UVNpU1ZXWHDkZiYjeEQ7C1
RjbnAycFJ6bmNFZDFsN1B0cXmWR0JkYU45ZjhkSGjpwTnKNnNVsytvY0NHdXR0FNCBmW1I1afJhV0ZTOHZQTVV2a1c2zU4WmKMI3hEOwP3aXhZYTQTw2wUhrS1RQXZ1ZbDYwYzBY
cm0vN3RPa2pWmNFZDFsN1B0cXmWR0JkYU45ZjhkSGjpwTnKNnNVsytvY0NHdXR0FNCBmW1I1afJhV0ZTOHZQTVV2a1c2zU4WmKMI3hEOwP3aXhZYTQTw2wUhrS1RQXZ1ZbDYwYzBY
FnODJZSvZNSmVfakxTNF1kV1RRNks5UFhpQyYjeEQ7CkNRZEhrbE10QjN0e1ErUTYvZUnZSVMhQSUVOREFsbH1CWEpjam1BU3N1T31rUGxua01IWjBpV3R5a0pTcUxE0XVtY1huemJrZFRB
ODKMI3hEOwPwTm9yUT11NUc3NE1kSWXK2cxDVMV2a2FXdE4yS0pIUjIvRj1tUEc2bWV1cmZ6aTE0V01EPmWpK090UE9VQT09PC9YNTA5Q2VydG1maWnhdGU+PC9YNTA5RGf0YT48L0t1eU
1uZm8+PC9TaWduYXR1cmU+PC9Qew10T3JkPg=</ns2:Pynt0rds>
</ns2:Pynt0rds>
<Signature xmlns="http://www.w3.org/2000/09/xmldsig#">
  <SignedInfo>
    <CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
    <SignatureMethod Algorithm="http://www.w3.org/2001/04/xmldsig-more#rsa-sha256"/>
    <Reference URI="#Response">
      <Transforms>
        <Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-
signature"/>
        <Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
      </Transforms>
      <DigestMethod Algorithm="http://www.w3.org/2001/04/xmldsig-more#sha256"/>
      <DigestValue>dk/ahJxehrys1.....1crR5yZgnV8h4=</DigestValue>
    </Reference>
  </SignedInfo>
  <SignatureValue>ca5t0jprXhSkR1.....l2c3K1Xk8yhL718MQ=</SignatureValue>
  <KeyInfo>
    <X509Data>
      <X509Certificate>MIIFCDcGAwIB.....asm+AvAAqeLVdyjAg=</X509Certificate>
    </X509Data>
  </KeyInfo>
</Signature>
</ns2:GetPaymentOrderResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

3.2 PAYMENT NOTIFICATIONS

3.2.1 PAYMENT NOTIFICATION REQUEST DATA MESSAGE

Name	Field type	Occurrence [Min, Max]	Description
PaymentNotificationRequest	Element	[1, 1]	Root XML element representing request for payment order.
Id	Attribute	[1, 1]	Attribute used for signature creation and verification. Fixed value "Request".
Version	Attribute	[1,1]	Attribute used to specify compliance with XSD schema. For this version fixed value is "1".
Header	Element	[1, 1]	XML element representing header...
UUID	Attribute	[1, 1]	ID of the message.
SendDateTime	Attribute	[1, 1]	Date and time of sending the message to the Tax administration.
Source	Attribute	[0,1]	Only for internal use.
PyntNotes	Element	[1, 1]	XML element representing a list of notifications.
PyntNot	Element	[1, 100]	XML element representing a single notification.
RefCode	Attribute	[1, 1]	Notification reference code.
DatTimSend	Attribute	[1, 1]	Date and time of sending.
BankNipt	Attribute	[1, 1]	Bank NIPT.
PyntOrdNum	Attribute	[0,1]	Payment order number.
PayerNipt	Attribute	[1, 1]	Payer NIPT.

			PymtNotits	Element	[1, 1]	XML element representing a list of notification items.
			PymtNotIt	Element	[1, 100]	XML element representing a single notification item.
			EinFic	Attribute	[1, 1]	Invoice FIC.
			PymtDatTim	Attribute	[1, 1]	Date and time of payment.
			PaidAmt	Attribute	[1, 1]	Amount of payment.
			OverpaidAmt	Attribute	[0,1]	Overpaid amount
			PaidCur	Attribute	[1, 1]	Currency of paying.
			TransactionCode	Attribute	[1, 1]	Transaction code from bank
			PymtType	Attribute	[1, 1]	Type of payment.
			PymtStatus	Attribute	[1, 1]	Status of payment.
			Signature	Element	[1, 1]	XML element with digital signature.

Table 35

3.2.1.1 Header

Element representing the header of the request data message.

3.2.1.2 Header UUID

Element generated by the service. It uniquely identifies the request message. UUID should be constructed according to the RFC4122 version 4.

Data type	string
Length	36 characters
Pattern	[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}
Example	58e0a7d7-eebc-41d8-9669-0800200c9a66 58E0A7D7-EEBC-41D8-9669-0800200C9A66

Table 36

3.2.1.3 Header SendDateTime

Element represents date and time of sending the request message to the CIS. Date and time should be in ISO 8601 format.

Data type	dateTime
Pattern	[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}[+-][0-9]{2}:[0-9]{2}
Example	2020-03-21T14:25:23+01:00

Table 37

3.2.1.4 Header Source

Element that is only for internal use. It is optional and must not be populated by bank.

Data type	string
Length	32 characters
Example	N/A

Table 38

3.2.1.5 PymtNots

XML element representing a list of payment notifications.

3.2.1.6 PymtNots PymtNot

XML element representing a single payment notification.

3.2.1.7 PymtNots PymtNot RefCode

Reference code of the payment note.

Data type	string
Length	30 characters
Example	ALLBPLPW

Table 39

3.2.1.8 PymtNots PymtNot DatTimSend

Date and time of sending the payment note.

Data type	dateTime
Pattern	[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}[+-][0-9]{2}:[0-9]{2}
Example	2020-03-21T14:25:23+01:00

Table 40

3.2.1.9 PymtNots PymtNot BankNipt

Data type	string
Length	10 characters
Pattern	[A-Z]{1}[0-9]{8}[A-Z]{1}
Example	I12345678Q

Table 41

3.2.1.10 PymtNots PymtNot PymtOrdNum

Data type	string
Length	30 characters
Pattern	[1-9]{1}[0-9]{0,14}\/[0-9]{4}
Example	1/2020

Table 40

3.2.1.11 PymtNots PymtNot PayerNipt

Data type	string
Length	10 characters
Pattern	[A-Z]{1}[0-9]{8}[A-Z]{1}
Example	I12345678Q

Table 42

3.2.1.12 PymtNots PymtNot PymtNotIts

XML element representing a list of payment notification items.

3.2.1.13 PymtNots PymtNot PymtNotIts PymtNotIt

XML element representing a single payment notification item.

3.2.1.13.1 PymtNots PymtNot PymtNotIts PymtNotIt EinFic

FIC of the invoice.

Data type	string
Length	36 characters
Pattern	[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}
Example	58e0a7d7-eebc-41d8-9669-0800200c9a66 58E0A7D7-EEBC-41D8-9669-0800200C9A66

Table 43

3.2.1.13.2 PymtNots PymtNot PymtNotIts PymtNotIt PymtDatTim

Date and time of payment.

Data type	dateTime
Pattern	[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}[+-][0-9]{2}:[0-9]{2}
Example	2020-03-21T14:25:23+01:00

Table 443

3.2.1.13.3 PymtNots PymtNot PymtNotIts PymtNotIt PaidAmt

Data type	decimal
Length	20 characters
Pattern	([1-9][0-9]* 0)\.[0-9]{2} 0"
Example	10.50 -10.50

Table 45

3.2.1.13.4 PymtNots PymtNot PymtNotIts PymtNotIt OverpaidAmt

Data type	decimal
Length	20 characters
Pattern	([1-9][0-9]* 0)\.[0-9]{2} 0"
Example	10.50 -10.50

Table 45

3.2.1.13.5 PymtNots PymtNot PymtNotIts PymtNotIt PaidCur

Data type	string
Constraint	Enumeration, described in the table below.
Example	EUR

Table 46

Enumeration values for currencies are shown in table below. Full list of currencies can be found in chapter 0.

Value	Description
ALL	Albanian lek
EUR	Euro
GRD	Greek drachma
MKD	Macedonian denar
TRY	Turkish lira
BGN	Bulgarian lev
BAM	Bosnia and Herzegovina convertible mark
HRK	Croatian kuna
...	...

Table 47

3.2.1.13.6 PymtNots PymtNot PymtNotIts PymtNotIt TransactionCode

Payer's full name.

Data type	string
Length	100 characters
Example	Transaction code from bank

Table 47

3.2.1.13.7 PymtNots PymtNot PymtNotIts PymtNotIt PymtType

Type of the payment.

Data type	string
Constraint	Enumeration, described in the table below.
Example	CASH

Table 479

Enumeration values for payment types are shown in table below.

Value	Description
CASH	Payment in cash.
NON_CASH	Payment in all but cash.

Table 50

3.2.1.13.8 PymtNots PymtNot PymtNotIts PymtNotIt PymtStatus

Status of the payment.

Data type	string
Constraint	Enumeration, described in the table below.

Example	PAYMENT
---------	---------

Table 51

Enumeration values for payment types are shown in table below.

Value	Description
PAYMENT	Payment is going to be payment.
CORRECTION	Payment is corrected.
CANCELLATION	Payment is cancelled.
ACCEPTED	Payment is accepted.
REFUSED	Payment is refused.

Table 52

3.2.1.14 Signature

XML element stores enveloped digital signature described in chapter 4.1.

3.2.2 PAYMENT NOTIFICATION XML REQUEST

<pre> <?xml version="1.0" encoding="UTF-8"?> <SetPaymentNotificationRequest xmlns="https://Einvoice.tatime.gov.al/EinvoiceBankService/schema" Id="Request" Version="1"> <Header UUID="1985dab2-b5c4-44bc-9aea-94656b423026" SendDateTime="2020-03-21T14:25:23+01:00"/> <PymtNots> <PymtNot RefCode="Bank code xx" DatTimSend="2020-03-21T14:25:23+01:00" BankNipt="I12345678Q" PymtOrdNum="1/2020" PayerNipt="I12345678Q"> <PymtNotIts> <PymtNotIt EinFic="1985dab2-b5c4-44bc-9aea-94656b423026" OverpaidAmt="0.50" PymtDatTim="2020-03-21T14:25:23+01:00" PaidAmt="10.50" PaidCur="EUR" PymtType="CASH" PymtStatus="PAYMENT" TransactionCode="TrnxBankCode"/> </PymtNotIts> </PymtNot> </PymtNots> <Signature xmlns="http://www.w3.org/2000/09/xmldsig#"> <SignedInfo> <CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/> <SignatureMethod Algorithm="http://www.w3.org/2001/04/xmldsig-more#rsa-sha256"/> <Reference URI="#Request"> <Transforms> <Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"/> <Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/> </Transforms> <DigestMethod Algorithm="http://www.w3.org/2001/04/xmldsig#sha256"/> <DigestValue>MXY1WA4aM6uHd.....N95Tk/7WhZVSFrDY=</DigestValue> </Reference> </SignedInfo> <SignatureValue>LkYz3tG8UJZgT858yix.....OHFjIgBU4OeaFhiyAtXMC5IwsxOQ==</SignatureValue> </Signature> </SetPaymentNotificationRequest> </pre>
--

3.2.3 PAYMENT NOTIFICATION RESPONSE DATA MESSAGE

Name	Field type	Occurrence [Min, Max]	Description
PaymentNotificationResponse	Element	[1, 1]	Root XML element representing request for payment order.
Id	Attribute	[1, 1]	Attribute used for signature creation and verification. Fixed value "Request".

Version	Attribute	[1,1]	Attribute used to specify compliance with XSD schema. For this version fixed value is "1".
Header	Element	[1, 1]	XML element representing header...
UUID	Attribute	[1, 1]	ID of the message.
SendDateTime	Attribute	[1, 1]	Date and time of sending the message to the Tax administration.
Message	Attribute	[1,1]	Message on notification success.
Code	Attribute	[1,1]	Code representing notification status.
Signature	Element	[1, 1]	XML element with digital signature.

Table 53

3.2.3.1 Header

Element representing the header of the request data message.

3.2.3.2 Header UUID

Element generated by the service. It uniquely identifies the request message. UUID should be constructed according to the RFC4122 version 4.

Data type	string
Length	36 characters
Pattern	[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}
Example	58e0a7d7-eebc-41d8-9669-0800200c9a66 58E0A7D7-EEBC-41D8-9669-0800200C9A66

Table 54

3.2.3.3 Header SendDateTime

Element represents date and time of sending the request message to the CIS. Date and time should be in ISO 8601 format.

Data type	dateTime
Pattern	[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}[+-][0-9]{2}:[0-9]{2}
Example	2020-03-21T14:25:23+01:00

Table 48

3.2.3.4 Message

Message that is shown along with notification.

Data type	string
Length	30 characters
Example	Success

Table 49

3.2.3.5 Code

Code that goes with message.

Data type	string
Constraint	Enumeration, described in the table below.
Example	ACCEPTED

Table 50

Enumeration values for message code are shown in table below.

Value	Description
ACCEPTED	Payment is accepted.
REFUSED	Payment is refused.
VALIDATION_FAILED	Payment validation failed.
INTERNAL_ERROR	Internal error occurred.

Table 51

3.2.3.6 Signature

XML element stores enveloped digital signature described in chapter 4.1.

3.2.4 PAYMENT NOTIFICATION XML RESPONSE

```
<?xml version="1.0" encoding="UTF-8"?>
<SetPaymentNotificationResponse xmlns="https://Einvoice.tatime.gov.al/EinvoiceBankService/schema"
    Id="Response"
    Version="1">
  <Header UUID="1985dab2-b5c4-44bc-9aea-94656b423026"
    RequestUUID="1985dab2-b5c4-44bc-9aea-94656b423026"
    SendDateTime="2020-03-21T14:25:23+01:00"/>
  <Message>Success</Message>
  <Code>ACCEPTED</Code>
  <Signature xmlns="http://www.w3.org/2000/09/xmldsig#">
    <SignedInfo>
      <CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
      <SignatureMethod Algorithm="http://www.w3.org/2001/04/xmldsig-more#rsa-sha256"/>
      <Reference URI="#Response">
        <Transforms>
          <Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"/>
          <Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
        </Transforms>
        <DigestMethod Algorithm="http://www.w3.org/2001/04/xmldsig#sha256"/>
        <DigestValue>FLk4uFp8XcIUNLC.....fWM7HLe1M=</DigestValue>
      </Reference>
    </SignedInfo>
    <SignatureValue>mPX/qAi/hD/eL90.....FVtB+XY50xX1ZYfFsWHP4y0cXrIePg5pVAwuZw==</SignatureValue>
  </Signature>
  <KeyInfo>
    <X509Data>
      <X509Certificate>MIIFRzCCBC+gAwIBAgIKQ.....zHcFfWiaTGDHt6qiD0cjSY=</X509Certificate>
    </X509Data>
  </KeyInfo>
</Signature>
</SetPaymentNotificationResponse>
```

4. Security

Following chapter shows calculated digital signature and its MD5 digest value (only examples are shown).

4.1 CALCULATED DIGITAL SIGNATURE

The signature value shown below is hashed with SHA256 algorithm and then signed with RSA algorithm and issuer's private key.

- PEM encoded private key:

```
-----BEGIN RSA PRIVATE KEY-----
MIIFRzCCBC+gAwIBAgIKQ3usFHZueA3xODANBgkqhkiG9w0BAQsFADBLMQswCQYDVQQGEwJBTDEN
MAsGA1UEChMETkFJUzEtMCsGA1UEAxMkTkFJUyBDbGFzcyAzIENlcnRpZmljYXRpb24gQXV0aG9y
aXR5MB4XDTEwMDIxMjA4Mjc1NFoXDTIxMDIxMTA4Mjc1NFowazELMAkGA1UEBhMCUwxDzANBGNV
BACB1RpcmFuZTEMMMAoGA1UEChMDR0RUMQ0wCwYDVQQMEwREZW1vMRkwFwYDVQQDExBHRFQgZUZp
c2thbG16aW1pMRMwEQYDVQQEEwpmJMDAwMDAwMDBJMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIB
CgKCAQEA9MenARDp1jxNbJldvG/VZSMfYNe5fjZq6qZoswF1RAvbi2fUfUonY7xZvJvH81/eWHqT
/YeF0fgSLampo3tJePADkhW94WPQN5t9CvKNSsrd3vYW/+xDY10bIyFTfkp1rSLuIsbMknznNfNV
lLqjsuH/VceFNVKF+NrFaxhmks8w2uBQiIeVLRUhiutu6yLoc76CukACiWK6Et53xiKL/X8pAsR
5M8oeCitUsL8+k1XYiHz0VidX0waNohFH9T916UU3shhYRK1CX/eyC6cEvUB7kJyE4NuQmx4GidY
hPYwdg+Xcw3MatX3+B7wJpmI2aknDZA2uLJSiH3x1EX+qQIDAQABo4ICCzCCAgcwZgYIKwYBBQUH
AQEEWjBYMCQGCCCsGAQUFBzABhhodHRwOi8vb2Nzc5ha3NoaS5nb3YuYWwwMAYIKwYBBQUHMAKG
JGh0dHA6Ly9jZXJ0cy5ha3NoaS5nb3YuYWwwY2xhc3MzMmNydDA0BGNVHQ8BAf8EBAMCBPAwHwYD
VR0jBBgwFoAUhyao+9srUZs50JJw9MYzVkdC2AUwHQYDVR00BBYEFDOFw9CjL1JjD45hXeJB9DKB
YkCGMEsGA1UdIAREMEIwQAYMKwYBBAGCSwwKAQEDMDAwLgYIKwYBBQUHAgEwImh0dHA6Ly93d3cu
YWtzaGkuZ292LmF5L3JlCG9zaXRvcnkwaGacGA1UdHwSBnzCBnDCBmaCB1qCBk4YiaHR0cDovL2Ny
bC5ha3NoaS5nb3YuYWwwY2xhc3MzMmNybIZtbGRhcDovL2xkYXAuYWtzaGkuZ292LmF5L0NOPU5B
SVMgQ2xhc3MgMyBDZXJ0awZpY2F0aw9uIEF1dGhvcml0eSxPPU5BSVMsQz1BTD9jZXJ0awZpY2F0
ZVJ1dm9jYXRpb25MaXN002JpbmFyeTA3BgNVHREEMDAuoB0GCisGAQQBgjcUAgoGdwwNaW5mb0Bz
Z24udGVzdIEaW5mb0BzZ24udGVzdDAdBgNVHSUEFjAUBggrBgEFBQcDAgYIKwYBBQUHAWQwDQYJ
KoZIHvcNAQELBQADggEBAH61p0sph1jPCof00Lw0skr9jm0LKZ+ufBvg0IFFDxiT93pF58hesmnN
qcReSkQNhsju6viNEV1SLJR3xk40B0Qij1g8/R16gxQPr00TnX1760JR8KGA7x0Qa1YEgPataVRi
rBs45TEICwbJWLXi4GTgaxyRgxtzI2FY4C0lTk1pu/7m4ipEY7v8cC6o0CX9xH4GoM5Z105n0kq
+c0coyopjzY9Gjv9aRo/+CbFMsFwrZGsis/WCwEfjzgIhcvYCi2qHKav7Pknrc08JURxK1hgqVpX
Px3v1bDy56SkTizpvPWUVM6oXcZTaqb6RD+GgzHcFfWiaTGDHt6qiD0cjSY=-----END RSA
PRIVATE KEY-----
```

Resulting signature value is:

- mPX/qAi/hD/eL90skSBQmrSk+sztzWysWCqornF2CcPpFL1G0SbFPvoYcK1lj367COYczl/ISsTI
WIFTpg1iOWKeUXsjKevzH8hUsp+AcQ1JUjIDbgOgqHLkoQJZmzaPXmrNUckzPnkaVeouxM7fj6z9
XBJvIQo45uhfL1idfU8LWcySSlsS85dLinxZ5DWb8jLU3YeoE5MgTdF7Mleh2FXa/Tbo3Kwmj9F
z9fw1QntWOJFQtJXjp5Mj8AcorCG6hW5HqAvQ3vAK/g1yXcm0U2rH9orCxcg/BkVNVQHGCwhnxPL
FvTB+XYSOxXIZYfFsWHP4y0cXrlePg5pVAwuZw==

4.2 CALCULATED DIGEST

After the signing, resulting value is hashed with a MD5 algorithm.

For example, for a signature value from previous chapter the MD5 digest value is:

- FLk4uFp8XclUNLCRPJbj15lQgGDiv+sYPOfWM7HLeIM=

5. Annex – XSD version 1

```
<?xml version="1.0" encoding="UTF-8"?>
<schema
  targetNamespace="https://Einvoice.tatime.gov.al/EinvoiceBankService/schema"
  xmlns:al="https://Einvoice.tatime.gov.al/EinvoiceBankService/schema"
  xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
  xmlns:vc="http://www.w3.org/2007/XMLSchema-versioning"
  elementFormDefault="qualified"
  vc:minVersion="1.1">

  <import namespace="http://www.w3.org/2000/09/xmldsig#" schemaLocation="xmldsig-core-schema.xsd"/>

  <element name="GetPaymentOrderRequest">
    <annotation>
      <documentation>Root XML element representing get payment order request message. Banks call Einvoice for payment
orders.</documentation>
    </annotation>
    <complexType>
      <all minOccurs="1" maxOccurs="1">
        <element name="Header" type="al:GetPaymentOrderRequestHeaderType" minOccurs="1" maxOccurs="1">
          <annotation>
            <documentation>XML element representing header containing data about the message (request) sent.</documentation>
          </annotation>
        </element>
        <element ref="ds:Signature" minOccurs="1" maxOccurs="1">
          <annotation>
            <documentation>XML element representing signature for request from banks.</documentation>
          </annotation>
        </element>
      </all>
      <attribute name="Id" type="string" use="required" fixed="Request">
        <annotation>
          <documentation>Attribute used for signature creation and verification.</documentation>
        </annotation>
      </attribute>
      <attribute name="Version" type="al:IntSType" use="required" fixed="1">
        <annotation>
          <documentation>Attribute used to specify compliance with XSD schema.</documentation>
        </annotation>
      </attribute>
    </complexType>
  </element>

  <element name="GetPaymentOrderResponse">
    <annotation>
      <documentation>Root XML element representing get payment order response message.</documentation>
    </annotation>
    <complexType>
      <all>
        <element name="Header" type="al:GetPaymentOrderResponseHeaderType" minOccurs="1" maxOccurs="1">
          <annotation>
            <documentation>XML element representing header containing data about the message (response) sent.</documentation>
          </annotation>
        </element>
        <element name="PymtOrds" type="al:PaymentOrdersType" minOccurs="1" maxOccurs="1">
          <annotation>
            <documentation>XML element representing payment orders.</documentation>
          </annotation>
        </element>
        <element ref="ds:Signature" minOccurs="1" maxOccurs="1"/>
      </all>
      <attribute name="Id" type="string" use="required" fixed="Response">
        <annotation>
          <documentation>Identification of the response, used to reference a signature.</documentation>
        </annotation>
      </attribute>
      <attribute name="Version" type="al:IntSType" use="required" fixed="1">
        <annotation>
          <documentation>Identification of the schema version.</documentation>
        </annotation>
      </attribute>
    </complexType>
  </element>

  <element name="SetPaymentNotificationRequest">
    <annotation>
      <documentation>Root XML element representing payment notification request message. Banks send notification to
Invoice.</documentation>
    </annotation>
    <complexType>
      <all minOccurs="1" maxOccurs="1">
        <element name="Header" type="al:SetPaymentNotificationRequestHeaderType" minOccurs="1" maxOccurs="1">
          <annotation>
            <documentation>XML element representing header containing data about the message (request) sent.</documentation>
          </annotation>
        </element>
        <element name="PymtNots" type="al:PaymentNotificationsType" minOccurs="1" maxOccurs="1">
          <annotation>
            <documentation>XML element representing payment notifications.</documentation>
          </annotation>
        </element>
        <element ref="ds:Signature" minOccurs="1" maxOccurs="1">
          <annotation>

```



```

        <documentation>XML element representing signature for request from banks.</documentation>
      </annotation>
    </element>
  </all>
  <attribute name="Id" type="string" use="required" fixed="Request">
    <annotation>
      <documentation>Attribute used for signature creation and verification.</documentation>
    </annotation>
  </attribute>
  <attribute name="Version" type="al:IntSType" use="required" fixed="1">
    <annotation>
      <documentation>Attribute used to specify compliance with XSD schema.</documentation>
    </annotation>
  </attribute>
</complexType>
</element>

<element name="SetPaymentNotificationResponse">
  <annotation>
    <documentation>Root XML element representing get payment notification response message.</documentation>
  </annotation>
  <complexType>
    <all>
      <element name="Header" type="al:SetPaymentNotificationResponseHeaderType" minOccurs="1" maxOccurs="1">
        <annotation>
          <documentation>XML element representing header containing data about the message (response) sent.</documentation>
        </annotation>
      </element>
      <element name="Message" type="al:String100SType" minOccurs="1" maxOccurs="1">
        <annotation>
          <documentation>Response message.</documentation>
        </annotation>
      </element>
      <element name="Code" type="al:ResponseCodeType" minOccurs="1" maxOccurs="1">
        <annotation>
          <documentation>Response code.</documentation>
        </annotation>
      </element>
      <element ref="ds:Signature" minOccurs="1" maxOccurs="1"/>
    </all>
    <attribute name="Id" type="string" use="required" fixed="Response">
      <annotation>
        <documentation>Identification of the response, used to reference a signature.</documentation>
      </annotation>
    </attribute>
    <attribute name="Version" type="al:IntSType" use="required" fixed="1">
      <annotation>
        <documentation>Identification of the schema version.</documentation>
      </annotation>
    </attribute>
  </complexType>
</element>

<complexType name="GetPaymentOrderRequestHeaderType">
  <attribute name="UUID" type="al:UUIDSType" use="required">
    <annotation>
      <documentation>UUID generated by banks for every request.</documentation>
    </annotation>
  </attribute>
  <attribute name="SendDateTime" type="al:UTCSType" use="required">
    <annotation>
      <documentation>Date and time of sending the request message.</documentation>
    </annotation>
  </attribute>
</complexType>

<complexType name="GetPaymentOrderResponseHeaderType">
  <attribute name="UUID" type="al:UUIDSType" use="required">
    <annotation>
      <documentation>Element generated by Einvoice for every message sent to banks. It uniquely identifies the message sent to
banks.</documentation>
    </annotation>
  </attribute>
  <attribute name="RequestUUID" type="al:UUIDSType" use="required">
    <annotation>
      <documentation>Element generated by banks in request. It uniquely identifies the request message for which response message
was sent.</documentation>
    </annotation>
  </attribute>
  <attribute name="SendDateTime" type="al:UTCSType" use="required">
    <annotation>
      <documentation>Element represents date and time of sending the response message.</documentation>
    </annotation>
  </attribute>
</complexType>

<complexType name="SetPaymentNotificationRequestHeaderType">
  <attribute name="UUID" type="al:UUIDSType" use="required">
    <annotation>
      <documentation>UUID generated by banks for every request.</documentation>
    </annotation>
  </attribute>
  <attribute name="SendDateTime" type="al:UTCSType" use="required">
    <annotation>
      <documentation>Date and time of sending the request message.</documentation>
    </annotation>
  </attribute>
  <attribute name="Source" type="al:Hex32SType" use="optional">

```

```

        <annotation>
            <documentation>Only for internal use.</documentation>
        </annotation>
    </attribute>
</complexType>

<complexType name="SetPaymentNotificationResponseHeaderType">
    <attribute name="UUID" type="al:UUIDSType" use="required">
        <annotation>
            <documentation>Element generated by Einvoice for every message sent to banks. It uniquely identifies the message sent to
banks.</documentation>
        </annotation>
    </attribute>
    <attribute name="RequestUUID" type="al:UUIDSType" use="required">
        <annotation>
            <documentation>Element generated by banks in request. It uniquely identifies the request message for which response message
was sent.</documentation>
        </annotation>
    </attribute>
    <attribute name="SendDateTime" type="al:UTCSType" use="required">
        <annotation>
            <documentation>Element represents date and time of sending the response message.</documentation>
        </annotation>
    </attribute>
</complexType>

<complexType name="PaymentOrderType">
    <all>
        <element name="PymtOrdIts" type="al:PaymentOrderItemsType" minOccurs="1" maxOccurs="1">
            <annotation>
                <documentation>Element representing a single payment order items.</documentation>
            </annotation>
        </element>
        <element ref="ds:Signature" minOccurs="1" maxOccurs="1"/>
    </all>
    <attribute name="Id" type="string" use="required" fixed="Order">
        <annotation>
            <documentation>Attribute used for signature creation and verification.</documentation>
        </annotation>
    </attribute>
    <attribute name="PymtOrdNum" type="al:PaymentOrderNumberType" use="required">
        <annotation>
            <documentation>Payment order number composed of ordinal number and calendar year.</documentation>
        </annotation>
    </attribute>
    <attribute name="PymtOrdDatTimSend" type="al:UTCSType" use="required">
        <annotation>
            <documentation>Date and time when payment order was sent to bank</documentation>
        </annotation>
    </attribute>
    <attribute name="PayerNipt" type="al:NUISType" use="required">
        <annotation>
            <documentation>Payer NUIS</documentation>
        </annotation>
    </attribute>
    <attribute name="PayerName" type="al:String100SType" use="required">
        <annotation>
            <documentation>Payer full name</documentation>
        </annotation>
    </attribute>
    <attribute name="PayerAddr" type="al:String100SType" use="optional">
        <annotation>
            <documentation>Payer full address</documentation>
        </annotation>
    </attribute>
    <attribute name="PayerBnkCode" type="al:BICType" use="required">
        <annotation>
            <documentation>Payer bank code</documentation>
        </annotation>
    </attribute>
    <attribute name="PayerBnkName" type="al:String100SType" use="required">
        <annotation>
            <documentation>Payer bank full name</documentation>
        </annotation>
    </attribute>
    <attribute name="StatusOrd" type="al:StatusOfOrderType" use="optional">
        <annotation>
            <documentation>Status of order.</documentation>
        </annotation>
    </attribute>
    <attribute name="TotalAmt" type="al:DecimalSType" use="required">
        <annotation>
            <documentation>Sum of PymtOrdIt.AmtToBePaid attributes.</documentation>
        </annotation>
    </attribute>
</complexType>

<complexType name="PaymentOrdersType">
    <sequence>
        <element name="PymtOrd" type="base64Binary" minOccurs="1" maxOccurs="100">
            <annotation>
                <documentation>Element representing a single PaymentOrderType encoded in base64 format.</documentation>
            </annotation>
        </element>
    </sequence>
</complexType>

<complexType name="PaymentOrderItemType">

```

```

<simpleContent>
  <extension base="string">
    <attribute name="EinFic" type="al:UUIDSType" use="required">
      <annotation>
        <documentation>Invoice fic selected for payment.</documentation>
      </annotation>
    </attribute>
    <attribute name="EinDatTim" type="al:UTCSType" use="required">
      <annotation>
        <documentation>Invoice date time.</documentation>
      </annotation>
    </attribute>
    <attribute name="EinNum" type="al:String100SType" use="required">
      <annotation>
        <documentation>Invoice number.</documentation>
      </annotation>
    </attribute>
    <attribute name="EinPymtRefNum" type="al:String100SType" use="optional">
      <annotation>
        <documentation>Invoice payment reference number.</documentation>
      </annotation>
    </attribute>
    <attribute name="EinAmt" type="al:DecimalSType" use="required">
      <annotation>
        <documentation>Invoice amount.</documentation>
      </annotation>
    </attribute>
    <attribute name="EinCur" type="al:CurrencyCodeType" use="required">
      <annotation>
        <documentation>Invoice currency code.</documentation>
      </annotation>
    </attribute>
    <attribute name="EinPymtDesc" type="al:String100SType" use="required">
      <annotation>
        <documentation>Invoice payment description.</documentation>
      </annotation>
    </attribute>
    <attribute name="PymtRecNipt" type="al:NUISType" use="required">
      <annotation>
        <documentation>Payment recipient NUIS.</documentation>
      </annotation>
    </attribute>
    <attribute name="PymtRecName" type="al:String100SType" use="required">
      <annotation>
        <documentation>Payment recipient name and surname.</documentation>
      </annotation>
    </attribute>
    <attribute name="PymtRecAddr" type="al:String100SType" use="required">
      <annotation>
        <documentation>Payment recipient address.</documentation>
      </annotation>
    </attribute>
    <attribute name="PymtRecIBAN" type="al:IBANType" use="required">
      <annotation>
        <documentation>Payment recipient IBAN.</documentation>
      </annotation>
    </attribute>
    <attribute name="PayerIBAN" type="al:IBANType" use="required">
      <annotation>
        <documentation>Payer IBAN</documentation>
      </annotation>
    </attribute>
    <attribute name="DatTimPymt" type="al:UTCSType" use="required">
      <annotation>
        <documentation>Date and time of payment</documentation>
      </annotation>
    </attribute>
    <attribute name="AmtToBePaid" type="al:DecimalSType" use="required">
      <annotation>
        <documentation>Amount to be paid for Invoice</documentation>
      </annotation>
    </attribute>
    <attribute name="CurToBePaid" type="al:CurrencyCodeType" use="required">
      <annotation>
        <documentation>Currency code to be paid for Invoice</documentation>
      </annotation>
    </attribute>
  </extension>
</simpleContent>
</complexType>

<complexType name="PaymentOrderItemsType">
  <sequence>
    <element name="PymtOrdIt" type="al:PaymentOrderItemType" minOccurs="1" maxOccurs="100">
      <annotation>
        <documentation>Element representing a single payment order item.</documentation>
      </annotation>
    </element>
  </sequence>
</complexType>

<complexType name="PaymentNotificationType">
  <all>
    <element name="PymtNotIts" type="al:PaymentNotificationItemsType" minOccurs="1" maxOccurs="1">
      <annotation>
        <documentation>Element representing a single payment notification items.</documentation>
      </annotation>
    </element>
  </all>
</complexType>

```

```

</all>
<attribute name="RefCode" type="al:String100SType" use="required">
  <annotation>
    <documentation>Reference code from bank system.</documentation>
  </annotation>
</attribute>
<attribute name="DatTimSend" type="al:UTCSType" use="required">
  <annotation>
    <documentation>Date and time when payment order was sent to bank</documentation>
  </annotation>
</attribute>
<attribute name="BankNipt" type="al:NUISType" use="required">
  <annotation>
    <documentation>Bank NUIS</documentation>
  </annotation>
</attribute>
<attribute name="PymtOrdNum" type="al:PaymentOrderNumberType" use="optional">
  <annotation>
    <documentation>Payment order number</documentation>
  </annotation>
</attribute>
<attribute name="PayerNipt" type="al:NUISType" use="required">
  <annotation>
    <documentation>Payer NUIS</documentation>
  </annotation>
</attribute>
</complexType>

<complexType name="PaymentNotificationsType">
  <sequence>
    <element name="PymtNot" type="al:PaymentNotificationType" minOccurs="1" maxOccurs="100">
      <annotation>
        <documentation>Element representing a single payment notification.</documentation>
      </annotation>
    </element>
  </sequence>
</complexType>

<complexType name="PaymentNotificationItemType">
  <simpleContent>
    <extension base="string">
      <attribute name="EinFic" type="al:UUIDSType" use="required">
        <annotation>
          <documentation>Einvoice fic for payment.</documentation>
        </annotation>
      </attribute>
      <attribute name="PymtDatTim" type="al:UTCSType" use="required">
        <annotation>
          <documentation>Payment date time.</documentation>
        </annotation>
      </attribute>
      <attribute name="PaidAmt" type="al:DecimalSType" use="required">
        <annotation>
          <documentation>Paid amount.</documentation>
        </annotation>
      </attribute>
      <attribute name="OverpaidAmt" type="al:DecimalSType" use="optional">
        <annotation>
          <documentation>Overpaid amount.</documentation>
        </annotation>
      </attribute>
      <attribute name="PaidCur" type="al:CurrencyCodeType" use="required">
        <annotation>
          <documentation>Paid currency.</documentation>
        </annotation>
      </attribute>
      <attribute name="TransactionCode" type="al:String100SType" use="required">
        <annotation>
          <documentation>Transaction code from bank.</documentation>
        </annotation>
      </attribute>
      <attribute name="PymtType" type="al:PaymentTypeType" use="required">
        <annotation>
          <documentation>Payment type.</documentation>
        </annotation>
      </attribute>
      <attribute name="PymtStatus" type="al:PaymentStatusType" use="required">
        <annotation>
          <documentation>Payment status.</documentation>
        </annotation>
      </attribute>
    </extension>
  </simpleContent>
</complexType>

<complexType name="PaymentNotificationItemsType">
  <sequence>
    <element name="PymtNotIt" type="al:PaymentNotificationItemType" minOccurs="1" maxOccurs="100">
      <annotation>
        <documentation>Element representing a single payment notification item.</documentation>
      </annotation>
    </element>
  </sequence>
</complexType>

<simpleType name="String100SType">
  <annotation>
    <documentation>String of up to 100 characters.</documentation>
  </annotation>

```

```

    </annotation>
    <restriction base="string">
      <minLength value="1"/>
      <maxLength value="100"/>
    </restriction>
  </simpleType>

  <simpleType name="UUIDType">
    <annotation>
      <documentation>UUID constructed according to the RFC4122 (https://tools.ietf.org/html/rfc4122).</documentation>
    </annotation>
    <restriction base="string">
      <pattern value="[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[1-5][0-9a-fA-F]{3}-[89abAB][0-9a-fA-F]{3}-[0-9a-fA-F]{12}"/>
    </restriction>
  </simpleType>

  <simpleType name="UTCSType">
    <annotation>
      <documentation>Date and time represented as UTC time with ISO 8601 format.</documentation>
    </annotation>
    <restriction base="dateTime">
      <pattern value="[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}[+-][0-9]{2}:[0-9]{2}"/>
    </restriction>
  </simpleType>

  <simpleType name="IntSType">
    <annotation>
      <documentation>Positive integer.</documentation>
    </annotation>
    <restriction base="int">
      <minExclusive value="0"/>
    </restriction>
  </simpleType>

  <simpleType name="DecimalSType">
    <annotation>
      <documentation>Decimal number with two numbers after decimal point.</documentation>
    </annotation>
    <restriction base="decimal">
      <pattern value="([1-9][0-9]*|0)\.[0-9]{2}|0"/>
    </restriction>
  </simpleType>

  <simpleType name="Hex32SType">
    <annotation>
      <documentation>Hexadecimal code made of 32 characters.</documentation>
    </annotation>
    <restriction base="string">
      <pattern value="[0-9a-fA-F]{32}"/>
    </restriction>
  </simpleType>

  <simpleType name="PaymentOrderNumberType">
    <annotation>
      <documentation>Payment order number composed of ordinal number and calendar year.</documentation>
    </annotation>
    <restriction base="string">
      <pattern value="[1-9]{1}[0-9]{0,14}\/[0-9]{4}"/>
    </restriction>
  </simpleType>

  <simpleType name="NUISSType">
    <annotation>
      <documentation>NUIS constructed in one letter - eight numbers - one letter pattern, unique.</documentation>
    </annotation>
    <restriction base="string">
      <pattern value="[a-zA-Z]{1}[0-9]{8}[a-zA-Z]{1}"/>
    </restriction>
  </simpleType>

  <simpleType name="BICSType">
    <annotation>
      <documentation>Business Identifier Code.</documentation>
    </annotation>
    <restriction base="string">
      <pattern value="([A-Z]{4})([A-Z]{2})([A-Z2-9][A-NP-Z0-9])([A-Z0-9]{3})?">
    </restriction>
  </simpleType>

  <simpleType name="IBANSType">
    <annotation>
      <documentation>IBAN Albania.</documentation>
    </annotation>
    <restriction base="string">
      <pattern value="AL[0-9]{10}[0-9A-Z]{16}"/>
    </restriction>
  </simpleType>

  <simpleType name="StatusOfOrderType">
    <annotation>
      <documentation>Status of order types.</documentation>
    </annotation>
    <restriction base="string">
      <enumeration value="REGULAR">
        <annotation>
          <documentation>Regular type.</documentation>
        </annotation>
      </enumeration>
    </restriction>
  </simpleType>

```

```

</enumeration>
<enumeration value="URGENT">
  <annotation>
    <documentation>Urgent type.</documentation>
  </annotation>
</enumeration>
</restriction>
</simpleType>

<simpleType name="CurrencyCodeType">
  <annotation>
    <documentation>Currency codes from ISO 4217 standard</documentation>
  </annotation>
  <restriction base="string">
    <enumeration value="AED"><annotation><documentation>United Arab Emirates Dirham</documentation></annotation></enumeration>
    <enumeration value="AFN"><annotation><documentation>Afghanistan Afghani</documentation></annotation></enumeration>
    <enumeration value="AMD"><annotation><documentation>Armenia Dram</documentation></annotation></enumeration>
    <enumeration value="ANG"><annotation><documentation>Netherlands Antilles Guilder</documentation></annotation></enumeration>
    <enumeration value="AOA"><annotation><documentation>Angola Kwanza</documentation></annotation></enumeration>
    <enumeration value="ARS"><annotation><documentation>Argentina Peso</documentation></annotation></enumeration>
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Mark</documentation></annotation></enumeration>
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    <enumeration value="CHF"><annotation><documentation>Switzerland Franc</documentation></annotation></enumeration>
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    <enumeration value="CNY"><annotation><documentation>China Yuan Renminbi</documentation></annotation></enumeration>
    <enumeration value="COP"><annotation><documentation>Colombia Peso</documentation></annotation></enumeration>
    <enumeration value="CRC"><annotation><documentation>Costa Rica Colon</documentation></annotation></enumeration>
    <enumeration value="CUC"><annotation><documentation>Cuba Convertible Peso</documentation></annotation></enumeration>
    <enumeration value="CUP"><annotation><documentation>Cuba Peso</documentation></annotation></enumeration>
    <enumeration value="CVE"><annotation><documentation>Cape Verde Escudo</documentation></annotation></enumeration>
    <enumeration value="CZK"><annotation><documentation>Czech Republic Koruna</documentation></annotation></enumeration>
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    <enumeration value="IRR"><annotation><documentation>Iran Rial</documentation></annotation></enumeration>
    <enumeration value="ISK"><annotation><documentation>Iceland Krona</documentation></annotation></enumeration>
    <enumeration value="JEP"><annotation><documentation>Jersey Pound</documentation></annotation></enumeration>
    <enumeration value="JMD"><annotation><documentation>Jamaica Dollar</documentation></annotation></enumeration>
    <enumeration value="JOD"><annotation><documentation>Jordan Dinar</documentation></annotation></enumeration>
    <enumeration value="JPY"><annotation><documentation>Japan Yen</documentation></annotation></enumeration>
    <enumeration value="KES"><annotation><documentation>Kenya Shilling</documentation></annotation></enumeration>
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    <enumeration value="KHR"><annotation><documentation>Cambodia Riel</documentation></annotation></enumeration>
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    <enumeration value="KRW"><annotation><documentation>Korea (South) Won</documentation></annotation></enumeration>
    <enumeration value="KWD"><annotation><documentation>Kuwait Dinar</documentation></annotation></enumeration>
    <enumeration value="KYD"><annotation><documentation>Cayman Islands Dollar</documentation></annotation></enumeration>
    <enumeration value="KZT"><annotation><documentation>Kazakhstan Tenge</documentation></annotation></enumeration>
    <enumeration value="LAK"><annotation><documentation>Laos Kip</documentation></annotation></enumeration>
    <enumeration value="LBP"><annotation><documentation>Lebanon Pound</documentation></annotation></enumeration>
    <enumeration value="LKR"><annotation><documentation>Sri Lanka Rupee</documentation></annotation></enumeration>
    <enumeration value="LRD"><annotation><documentation>Liberia Dollar</documentation></annotation></enumeration>

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<enumeration value="MNT"><annotation><documentation>Mongolia Tughrig</documentation></annotation></enumeration>
<enumeration value="MOP"><annotation><documentation>Macau Pataca</documentation></annotation></enumeration>
<enumeration value="MRU"><annotation><documentation>Mauritania Ouguiya</documentation></annotation></enumeration>
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Franc</documentation></annotation></enumeration>
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```

```

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        </annotation>
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      <enumeration value="VALIDATION_FAILED">
        <annotation>
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        </annotation>
      </enumeration>
      <enumeration value="INTERNAL_ERROR">
        <annotation>
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</schema>

```


6. Annex – WSDL version 1

```
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions
  name="InvoiceBankService"
  targetNamespace="https://Invoice.tatime.gov.al/InvoiceBankService"
  xmlns:al="https://Invoice.tatime.gov.al/InvoiceBankService"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:als="https://Invoice.tatime.gov.al/InvoiceBankService/schema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

  <wsdl:types>
    <xsd:schema>
      <xsd:import namespace="https://Invoice.tatime.gov.al/InvoiceBankService/schema" schemaLocation="einvoice-bank-service.xsd"/>
    </xsd:schema>
  </wsdl:types>

  <wsdl:message name="GetPaymentOrderRequest">
    <wsdl:documentation>Element representing get payment order request message.</wsdl:documentation>
    <wsdl:part element="als:GetPaymentOrderRequest" name="request"/>
  </wsdl:message>

  <wsdl:message name="GetPaymentOrderResponse">
    <wsdl:documentation>Element representing get payment order response message.</wsdl:documentation>
    <wsdl:part element="als:GetPaymentOrderResponse" name="response"/>
  </wsdl:message>

  <wsdl:message name="SetPaymentNotificationRequest">
    <wsdl:documentation>Element representing payment set notification request message.</wsdl:documentation>
    <wsdl:part element="als:SetPaymentNotificationRequest" name="request"/>
  </wsdl:message>

  <wsdl:message name="SetPaymentNotificationResponse">
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    <wsdl:part element="als:SetPaymentNotificationResponse" name="response"/>
  </wsdl:message>

  <wsdl:portType name="InvoiceBankServicePortType">
    <wsdl:operation name="getPaymentOrders">
      <wsdl:input message="al:GetPaymentOrderRequest"/>
      <wsdl:output message="al:GetPaymentOrderResponse"/>
    </wsdl:operation>
    <wsdl:operation name="setPaymentNotifications">
      <wsdl:input message="al:SetPaymentNotificationRequest"/>
      <wsdl:output message="al:SetPaymentNotificationResponse"/>
    </wsdl:operation>
  </wsdl:portType>

  <wsdl:binding name="InvoiceBankServiceSoap" type="al:InvoiceBankServicePortType">
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    <wsdl:operation name="getPaymentOrders">
      <soap:operation soapAction="https://Invoice.tatime.gov.al/InvoiceBankService/getPaymentOrders"/>
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      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
    <wsdl:operation name="setPaymentNotifications">
      <soap:operation soapAction="https://Invoice.tatime.gov.al/InvoiceBankService/setPaymentNotifications"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>

  <wsdl:service name="InvoiceBankService">
    <wsdl:port name="InvoiceBankServicePort" binding="al:InvoiceBankServiceSoap">
      <soap:address location="https://Invoice.tatime.gov.al/InvoiceBankService-v1"/>
    </wsdl:port>
  </wsdl:service>

</wsdl:definitions>
```