E-Invoice Bank Service

(Version v02)

Technical Specification

Versions

Version	Date	Description of Change
v01	28.10.2020	Initial Version
V02	11.02.2021	Updated with XML requests and responses

CONTENTS

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 ABBREVATIONS

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/	-

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 APLICATION 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/xmlenc#sha256"/>
                <DigestValue>MXYlWA4aM6uHd7UNT0AYSDiP9bN95Tk/7WhZVSFrdDY=</DigestValue>
            </Reference>
        </SignedInfo>

<SignatureValue>LkYz3tG8UJZgT858yixDuV/fEewCrk6PelXGD1Fkzs43CZy3MyDoghiKNfKba4dGn7/ykj4xaYkUE4s+KfCUUUvtSD2pEAF4pQwure6NZPX5LpXo6XVFvNEz/8wBTy
/vkk1TVOVstY8U3eTqssGCtGdPL+uPokXDuMkX6u4MeyishkSf8gOVxr2b4EtVwI4Hz7a+3DWG/JOtgYLpJN9tdc1CiwX8HTNDlsyIUnd/uibiLkyct61zSQ+jawHoYrM5RBI7zY4eV1Og
Q4ueBXqZS1IauLF/IjZqqvp2v7Va/VmVjToU93p0BEhguzOHFjIgBU4OeaFhiyAtXMC5IwsxOQ==</SignatureValue>
        <KeyInfo>
            <X509Data>

<X509Certificate>MIIFXTCCBEWgAwIBAgIKQ0H0ETOY7QmR/zANBgkqhkiG9w0BAQsFADBLMQswCQYDVQQGEwJBTDENMAsGA1UEChMETkFJUzEtMCsGA1UEAxMkTkFJUyBDbGFzcyAzI
ENlcnRpZmljYXRpb24gQXV0aG9yaXR5MB4XDTE5MTAxMDA3NDMzMVoXDTIwMTAwOTA3NDMzMVowbzELMAkGA1UEBhMCQUwxDjAMBgNVBAcTBUtvcmNlMRYwFAYDVQQKEw1EQUlTWSBhbmQ
gRVRNMSMwIQYDVQQDExpEQUlTWSBhbmQgRVRNIEZpc2thbGl6aW1pMTETMBEGA1UEBBMKTDA0ODIwMDAxTjCCASIwDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBALbmlgXO51GFkGxBr
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u9nVAU48zH5DEkMFNBIL1VXcVJw+MaSP5UzXBTAsyaOk47n97SebLdMrCqnE8x9ML0Y6zKK5Y+llhpH44utCng108uPb+fa1vCEUDKbUcCWPs1B9dz7gZs1pYPbNKrcaBhwd6+9HgqfI7U
UAoUW7eEm2ru8eUTmYssicrRDk/pfRoLpIzGkGevlECAwEAAaOCAh0wggIZMGYGCCsGAQUFBwEBBFowWDAkBggrBgEFBQcwAYYaHR0cDovL29jc3AuYWtzaGkuZ292LmFsMDAGCCsGAQU
FBzAChiRodHRwOi8vY2VydHMuYWtzaGkuZ292LmFsL2NsYXNzMy5jcnQwDgYDVR0PAQH/BAQDAgTwMB8GA1UdIwQYMBaAFIcmqPvbK1GbOdCY1vTGM1ZHXNgFMB0GA1UdDgQWBBTunUEmz
f/HFOIgeIyFfjRxQ6ESZTBLBgNVHSAERDBCMEAGDCsGAQQBgrFsCgEBAzAwMC4GCCsGAQUFBwIBFiJodHRwOi8vd3d3LmFrc2hpLmdvdi5hbC9yZXBvc2l0b3J5MIGnBgNVHR8EgZ8wgZw
wgZmggZaggZOGImh0dHA6Ly9jcmwuYWtzaGkuZ292LmFsL2NsYXNzMy5jcmyGbWxkYXA6Ly9sZGFwLmFrc2hpLmdvdi5hbC9yZXBvc2l0b3J5MIGnBgNVHR8EgZ8wgZw
3JpdHksTz1OQUlTLEM9QUw/Y2VydGlmaWNhdGVSZXZvY2F0aW9uTGlzdDtiaW5hcnkwSQYDVR0RBEIwQKAmBgorBgEEAYI3FAIDoBgMFmFkaW5lcGV0cml0aUB5YWhvby5jb22BFmFkaW5
lcGV0cml0aUB5YWhvby5jb20wHQYDVR0lBBYwFAYIKwYBBQUHAwIGCCsGAQUFBwMEMA0GCSqGSIb3DQEBCwUAA4IBAQBMrzlClFZRZE39ADKyoXFcdiJvaOIXj1k0NhPbZMCqSnTVMgPiI
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Qs2yAkiVXEw54RAuwUUYteEwzK7si3dLcjCBAlWhwHLWvnbdguzaLNcvnV9hYlDPV2kuPlqzLslJKmhXAC3K7k9wDeg1j6wDTslj14MZUubgXqDqZGbNWSh5sVMBaXNUomzI9YgB5FUndX
wxD+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 “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.
PymtOrds	Element	[1,1]	List of all orders on the einvoice
PymtOrd	Element	[1,100]	Details of one 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.
PymtOrdIts	Element	[1,1]	List of items of a single order.
PymtOrdIt	Element	[1,100]	Single item of an order.
EinFic	Attribute	[1,1]	FIC of the einvoice in question.

					EinDatTim	Attribute	[1,1]	Date and time of the einvoice.
					EinNum	Attribute	[1,1]	Ordinal number of the einvoice.
					EinPymtRefNum	Attribute	[0,1]	Reference to the payment.
					EinAmt	Attribute	[1,1]	Amount on the invoice.
					EinCur	Attribute	[1,1]	Currency used on the invoice.
					EinPymtDesc	Attribute	[1,1]	Description of the payment.
					PymtRecNipt	Attribute	[1,1]	NIPT of the recipient.
					PymtRecName	Attribute	[1,1]	Recipient name.
					PymtRecAddr	Attribute	[1,1]	Recipient address.
					PymtRecIBAN	Attribute	[1,1]	Recipient IBAN.
					PayerIBAN	Attribute	[1,1]	Payer IBAN.
					DatTimPymt	Attribute	[1,1]	Payment date and time.
					AmtToBePaid	Attribute	[1,1]	Amount of the invoice.
					CurToBePaid	Attribute	[1,1]	Currency that invoice is paid in.
	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

XML element representing a sing payment order.

3.1.3.6 PymtOrds 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 7

3.1.3.7 PymtOrds 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 8

3.1.3.8 PymtOrds 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 9

3.1.3.9 PymtOrds PymtOrd PayerName

Payer’s full name.

Data type	string
Length	100 characters
Example	Name Surname

Table 10

3.1.3.10 PymtOrds PymtOrd PayerAddr

Payer’s full address.

Data type	string
Length	200 characters
Example	Full address

Table 11

3.1.3.11 PymtOrds PymtOrd PayerBnkCode

Code of the payer’s bank.

Data type	string
Length	30 characters
Example	ALLBPLPW

Table 12

3.1.3.12 PymtOrds PymtOrd PayerBnkName

Full name of the payer’s bank.

Data type	string
Length	200 characters
Example	Bank full name

Table 13

3.1.3.13 PymtOrds PymtOrd StatusOrd

Status of the order.

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

Table 14

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

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

Table 15

3.1.3.14 PymtOrds PymtOrd PymtOrdIs

XML element representing a list of payment order items.

3.1.3.15 PymtOrds PymtOrd PymtOrdIs PymtOrdI

XML element representing a single payment order item.

3.1.3.16 PymtOrds PymtOrd PymtOrdIs PymtOrdI EinvFic

Einvoice 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 16

3.1.3.17 PymtOrds PymtOrd PymtOrdIs PymtOrdI EinDatTim

Date and time of the einvoice.

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 17

3.1.3.18 PymtOrds PymtOrd PymtOrdIs PymtOrdI EinNum

Number of the einvoice.

Data type	string
Length	30 characters
Example	10

Table 18

3.1.3.19 PymtOrds PymtOrd PymtOrdIs PymtOrdI EinPymtRefNum

Einvoice payment reference number.

Data type	string
Length	30 characters
Example	15

Table 19

3.1.3.20 PymtOrds PymtOrd PymtOrdIs PymtOrdI EinAmt

Amount of the einvoice.

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

Table 20

3.1.3.21 PymtOrds PymtOrd PymtOrdIs PymtOrdI EinCur

Currency of the einvoice payment.

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

Table 21

Enumeration values for currencies are shown in table below.

Value	Description
ALL	Leku Shqiptar
EUR	Euro
USD	Dollari Amerikan
MKD	Dinari Maqedonas
TRY	Lira Turke
HRK	Kuna Kroate
…	…

Table 22

3.1.3.22 PymtOrds PymtOrd PymtOrdIs PymtOrdI EinPymtDesc

Description of the einvoice payment.

Data type	string

Length	1000 characters
Example	This is the einvoice payment description.

Table 23

3.1.3.23 PymtOrds 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 24

3.1.3.24 PymtOrds PymtOrd PymtOrdIs PymtOrdI PymtRecName

Name of the payment recipient.

Data type	string
Length	100 characters
Example	Recipient name

Table 25

3.1.3.25 PymtOrds PymtOrd PymtOrdIs PymtOrdI PymtRecipAddr

Address of the payment recipient.

Data type	string
Length	200 characters
Example	Recipient address

Table 26

3.1.3.26 PymtOrds 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 27

3.1.3.27 PymtOrds 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 28

3.1.3.28 PymtOrds 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 29

3.1.3.29 PymtOrds 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 30

3.1.3.30 PymtOrds PymtOrd PymtOrdIs PymtOrdI CurToBePaid

Currency that will be used for paying the einvoice.

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

Table 31

Enumeration values for currencies are shown in table below.

Value	Description
ALL	Leku Shqiptar
EUR	Euro
USD	Dollari Amerikan
MKD	Dinari Maqedonas
TRY	Lira Turke
HRK	Kuna Kroate
…	…

Table 32

3.1.3.31 Signature

XML element stores enveloped digital signature described in chapter 4.1.

3.1.4 PAYMENT ORDER XML RESPONSE

```
<?xml version="1.0" encoding="UTF-8"?>
<GetPaymentOrderResponse 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"/>
    <PymtOrds>
        <PymtOrd PymtOrdNum="1/2020"
                 PymtOrdDatTimSend="2020-03-21T14:25:23+01:00"
                 PayerNipt="I12345678Q"
                 PayerName="Name surname"
                 PayerAddr="Payer full address"
                 PayerBnkCode="ALLBPLPW"
                 PayerBnkName="Bank full name"
                 StatusOrd="REGULAR">
            <PymtOrdIts>
                <PymtOrdIt EinFic="1985dab2-b5c4-44bc-9aea-94656b423026"
                           EinDatTim="2020-03-21T14:25:23+01:00"
                           EinNum="10"
                           EinPymtRefNum="15"
                           EinAmt="10.50"
                           EinCur="EUR"
                           EinPymtDesc="Desc"
                           PymtRecNipt="I12345678Q"
                           PymtRecName="Recipient name"
                           PymtRecAddr="Recipient address"
                           PymtRecIBAN="AL35202111090000000001234567"
                           PayerIBAN="AL35202111090000000001234567"
                           DatTimPymt="2020-03-21T14:25:23+01:00"
                           AmtToBePaid="10.50"
                           CurToBePaid="EUR"/>
            </PymtOrdIts>
        </PymtOrd>
    </PymtOrds>
    <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/xmlenc#sha256"/>
                <DigestValue>FLk4uFp8XcIUNLCRPJbj15lQgGDiv+sYPOfWM7HLelM=</DigestValue>
            </Reference>
        </SignedInfo>
        <SignatureValue>mPX/qAi/hD/eL90skSBQmrSk+sztzWysWCqornF2CcPpFL1G0SbFPvoYcK1Ij367COYczI/ISsTI
WlFTpg1iOWKeUXsjKevzH8hUsp+AcQ1JUjIDbgOgqHLkoQJZmzaPXmrNUcKzPnkaVeouxM7fj6z9
XBJvIQo45uhfIL1idfU8LWcySSlsS85dLinxZ5DWb8jLU3YeoE5MgTdF7MIeh2FXa/Tbo3Kwmj9F
z9fwI1QntWOJFQtJXjp5Mj8AcorCG6hW5HqAvQ3vAK/g1yXcm0U2rH9orCxg/BkVNVQHGcwhnxPL FVtB+XYSOxXlZYfFsWHP4y0cXrIePg5pVAwuZw==</SignatureValue>
        <KeyInfo>
            <X509Data>
                <X509Certificate>MIIFRzCCBC+gAwIBAgIKQ3usFHZueA3xODANBgkqhkiG9w0BAQsFADBLMQswCQYDVQQGEwJBTDEN
MAsGA1UEChMETkFJUzEtMCsGA1UEAxMkTkFJUyBDbGFzcyAzIENlcnRpZmljYXRpb24gQXV0aG9y
aXR5MB4XDTIwMDIxMjA4Mjc1NFoXDTIxMDIxMTA4Mjc1NFowazELMAkGA1UEBhMCQUwxDzANBgNV
BAcTBlRpcmFuZTEMMAoGA1UEChMDR0RUMQ0wCwYDVQQMEwREZW1vMRkwFwYDVQQDExBHRFQgZUZp
c2thbGl6aW1pMRMwEQYDVQQEEwpJMDAwMDAwMDBJMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIB
CgKCAQEA9MenARDp1jxNbJldvG/VZSMfYNe5fjZq6qZoswFlRAvbi2fUfUonY7xZvJvH81/eWHqT
/YeF0fgSLampo3tJePADkhW94WPQN5t9CvKNSsrd3vYW/+xDYlObIyFTfkp1rSLuIsbMknznNfNV
lLqjsuH/VceFNvKF+NrFaxhmkcs8w2uBQiIeVLRUhiutu6yLoc76CukACiWK6Et53xiKL/X8pAsR
5M8oeCitUsL8+k1XYiHzOVidX0waNohFH9T916UU3shhYRKlCX/eyC6cEvUB7kJyE4NuQmx4GidY
hPYwdg+XcW3MAtX3+B7wJpmI2aknDZA2uLJSiH3xlEX+qQIDAQABo4ICCzCCAgcwZgYIKwYBBQUH
AQEEWjBYMCQGCCsGAQUFBzABhhhodHRwOi8vb2NzcC5ha3NoaS5nb3YuYWwwMAYIKwYBBQUHMAKG
JGh0dHA6Ly9jZXJ0cy5ha3NoaS5nb3YuYWwvY2xhc3MzLmNydDAOBgNVHQ8BAf8EBAMCBPAwHwYD
VR0jBBgwFoAUhyao+9srUZs50JjW9MYzVkdc2AUwHQYDVR0OBBYEFDOFw9CjLlJjD45hXejB9DKB
YkCGMEsGA1UdIAREMEIwQAYMKwYBBAGCswWKAQEDMDAwLgYIKwYBBQUHAgEWImh0dHA6Ly93d3cu
YWtzaGkuZ292LmFsL3JlcG9zaXRvcnkwgacGA1UdHwSBnzCBnDCBmaCBlqCBk4YiaHR0cDovL2Ny
bC5ha3NoaS5nb3YuYWwvY2xhc3MzLmNybIZtbGRhcDovL2xkYXAuYWtzaGkuZ292LmFsL0NOPU5B
SVMgQ2xhc3MgMyBDZXJ0aWZpY2F0aW9uIEF1dGhvcml0eSxPPU5BSVMsQz1BTD9jZXJ0aWZpY2F0
ZVJldm9jYXRpb25MaXN0O2JpbmFyeTA3BgNVHREEMDAuoB0GCisGAQQBgjcUAgOgDwwNaW5mb0Bz
Z24udGVzdIENaW5mb0BzZ24udGVzdDAdBgNVHSUEFjAUBggrBgEFBQcDAgYIKwYBBQUHAwQwDQYJ
KoZIhvcNAQELBQADggEBAH6lp0sph1jPCofOOLwOskr9jmOLKZ+ufBvgOIfFDxiT93pF58hesmnN
qcReSkQNHsju6viNEVlSLJR3xk4OBOQiJ1g8/Rl6gxQPr0OTnXl76OJR8KGA7xOQalYEgPataVRi
rBs45TEICwbJWLXiq4GTgaxyRgxtzI2FY4C0lTk1pu/7m4ipEY7v8cC6oOCX9xH4GoM5Zl05n0kq
+c0coyopjzY9Gjv9aRo/+CbfMsFWrZGsis/WCwEfjzgIhcvYCi2qHKav7Pknrc08JURxK1hgqVpX
Px3v1bDy56SkTizpvPWUVM6oXcZTaqb6RD+GgzHcFfWiaTGDHt6qiDOcjSY=</X509Certificate>
            </X509Data>
        </KeyInfo>
    </Signature>
</GetPaymentOrderResponse>
```

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.
PymtNots	Element	[1, 1]	XML element representing a list of notifications.
PymtNot	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.
PymtOrdNum	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]	Einvoice FIC.
PymtDatTim	Attribute	[1, 1]	Date and time of payment.
PaidAmt	Attribute	[1, 1]	Amount of payment.
PaidCur	Attribute	[1, 1]	Currency of paying.
PymtType	Attribute	[1, 1]	Type of payment.
PymtStatus	Attribute	[1, 1]	Status of payment.
Signature	Element	[1, 1]	XML element with digital signature.

Table 33

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 34

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 35

3.2.1.4 PymtNots

XML element representing a list of payment notifications.

3.2.1.5 PymtNots PymtNot

XML element representing a single payment notification.

3.2.1.6 PymtNots PymtNot RefCode

Reference code of the payment note.

Data type	string
Length	30 characters
Example	ALLBPLPW

Table 36

3.2.1.7 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 37

3.2.1.8 PymtNots PymtNot BankNipt

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

Table 38

3.2.1.9 PymtNots PymtNot PymtOrdNum

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

Table 39

3.2.1.10 PymtNots PymtNot PayerNipt

Data type	string
Length	10 characters

Pattern	[A-Z]{1}[0-9]{8}[A-Z]{1}
Example	I12345678Q

Table 40

3.2.1.11 PymtNots PymtNot PymtNotIts

XML element representing a list of payment notification items.

3.2.1.12 PymtNots PymtNot PymtNotIts PymtNotIt

XML element representing a single payment notification item.

3.2.1.1 PymtNots PymtNot PymtNotIts PymtNotIt EinFic

FIC of the einvoice.

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 41

3.2.1.1 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 42

3.2.1.2 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 43

3.2.1.3 PymtNots PymtNot PymtNotIts PymtNotIt PaidCur

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

Table 44

Enumeration values for currencies are shown in table below.

Value	Description
ALL	Leku Shqiptar

EUR	Euro
USD	Dollari Amerikan
MKD	Dinari Maqedonas
TRY	Lira Turke
HRK	Kuna Kroate
…	…

Table 45

3.2.1.4 PymtNots PymtNot PymtNotIts PymtNotIt PymtType

Type of the payment.

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

Table 46

Enumeration values for payment types are shown in table below.

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

Table 47

3.2.1.5 PymtNots PymtNot PymtNotIts PymtNotIt PymtStatus

Status of the payment.

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

Table 48

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 49

3.2.1.6 Signature

XML element stores enveloped digital signature described in chapter 4.1.

3.2.2 PAYMENT NOTIFICATION XML REQUEST

```
<?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"
                           PymtDatTim="2020-03-21T14:25:23+01:00"
                           PaidAmt="10.50"
                           PaidCur="EUR"
                           PymtType="CASH"
                           PymtStatus="PAYMENT"/>
            </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/xmlenc#sha256"/>
                <DigestValue>MXYlWA4aM6uHd7UNT0AYSDiP9bN95Tk/7WhZVSFrdDY=</DigestValue>
            </Reference>
        </SignedInfo>

<SignatureValue>LkYz3tG8UJZgT858yixDuV/fEewCrk6PelXGD1Fkzs43CZy3MyDoghiKNfKba4dGn7/ykj4xaYkUE4s+KfCUUUvtSD2pEAF4pQwure6NZP
X5LpXo6XVFvNEz/8wBTy/vkk1TVOVstY8U3eTqssGCtGdPL+uPokXDuMkX6u4MeyishkSf8gOVxr2b4EtVwI4Hz7a+3DWG/JOtgYLpJN9tdc1CiwX8HTNDlsyI
Und/uibiLkyct61zSQ+jawHoYrM5RBI7zY4eV1OgQ4ueBXqZS1IauLF/IjZqqvp2v7Va/VmVjToU93p0BEhguzOHFjIgBU4OeaFhiyAtXMC5IwsxOQ==</Sign
atureValue>
        <KeyInfo>
            <X509Data>

<X509Certificate>MIIFXTCCBEWgAwIBAgIKQ0H0EToY7QmR/zANBgkqhkiG9w0BAQsFADBLMQswCQYDVQQGEwJBTDENMAsGA1UEChMETkFJUzEtMCsGA1UEA
xMkTkFJUyBDbGFzcyAzIENlcnRpZmljYXRpb24gQXV0aG9yaXR5MB4XDTE5MTAxMDA3NDMzMVoXDTIwMTAwOTA3NDMzMVowbzELMAkGA1UEBhMCQUwxDjAMBgN
VBAcTBUtvcmNlMRYwFAYDVQQKEw1EQUlTWSBhbmQgRVRNMSMwIQYDVQQDExpEQUlTWSBhbmQgRVRNIEZpc2thbGl6aW1pMTETMBEGA1UEBBMKTDA0ODIwMDAxT
jCCASIwDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBALbmlgXO51GFkGxBrm0FWsetkuP6z9OIEzste+zGzeqgKWmgG4KizbODv7Sk6bDS5D63aFkGADJWE30
018osDqee95GW2/ERT9Nwg2lLk4dHdoCyxOj2efq7eKhNvvA5R3wQxu9ClNlQ1aaKCkClissOcamaUPeu9nVAU48zH5DEkMFNBIL1VXcVJw+MaSP5UzXBTAsya
Ok47n97SebLdMrCqnE8x9ML0Y6zKK5Y+llhpH44utCng108uPb+fa1vCEUDKbUcCWPs1B9dz7gZs1pYPbNKrcaBhwd6+9HgqfI7UUAoUW7eEm2ru8eUTmYssic
rRDk/pfRoLpIzGkGevlECAwEAAaOCAh0wggIZMGYGCCsGAQUFBwEBBFowWDAkBggrBgEFBQcwAYYaHR0cDovL29jc3AuYWtzaGkuZ292LmFsMDAGCCsGAQUFB
zAChiRodHRwOi8vY2VydHMuYWtzaGkuZ292LmFsL2NsYXNzMy5jcnQwDgYDVR0PAQH/BAQDAgTwMB8GA1UdIwQYMBaAFIcmqPvbK1GbOdCY1vTGM1ZHXNgFMB0
GA1UdDgQWBBTunUEmzf/HFOIgeIyFfjRxQ6ESZTBLBgNVHSAERDBCMEAGDCsGAQQBgrFsCgEBAzAwMC4GCCsGAQUFBwIBFiJodHRwOi8vd3d3LmFrc2hpLmdvd
i5hbC9yZXBvc2l0b3J5MIGnBgNVHR8EgZ8wgZwwgZmggZaggZOGImh0dHA6Ly9jcmwuYWtzaGkuZ292LmFsL2NsYXNzMy5jcmyGbWxkYXA6Ly9sZGFwLmFrc2h
pLmdvdi5hbC9DTj1OQUlTIENsYXNzIDMgQ2VydGlmaWNhdGlvbiBBdXRob3JpdHksT1OQUlTLEM9QUw/Y2VydGlmaWNhdGVSZXZvY2F0aW9uTGlzdDtiaW5hc
nkwSQYDVR0RBEIwQKAmBgorBgEEAYI3FAIDoBgMFmFkaW5lcGV0cml0aUB5YWhvby5jb22BFmFkaW5lcGV0cml0aUB5YWhvby5jb20wHQYDVR0lBBYwFAYIKwY
BBQUHAwIGCCsGAQUFBwMEMA0GCSqGSIb3DQEBCwUAA4IBAQBMrzlClFZRZE39ADKyoXFcdiJvaOIXj1k0NhPbZMCqSnTVMgPiI53HvLZ54A/RExf1kiI+oS75c
ef+1K8vGLp916AbdhDfAykTfsNtzDSWAupi6A23XzWzyLrmPhlobQrCEoW5gj4p2J8fo7+BRmgBGEBW7CKBayGdZZ5Xna6ZM68dB0i4cBgG0GJkod4Dk+XQs2y
AkiVXEw54RAuwUUYteEwzK7si3dLcjCBAlWhwHLWvnbdguzaLNcvnV9hYlDPV2kuPlqzLslJKmhXAC3K7k9wDeg1j6wDTslj14MZUubgXqDqZGbNWSh5sVMBaX
NUomzI9YgB5FUndXwxD+7sB</X509Certificate>
            </X509Data>
        </KeyInfo>
    </Signature>
</SetPaymentNotificationRequest>
```

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 50

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 51

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 52

3.2.3.4 Message

Message that is shown along with notification.

Data type	string
Length	30 characters
Example	Success

Table 53

3.2.3.5 Code

Code that goes with message.

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

Table 54

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 55

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>Sucess</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/xmlenc#sha256"/>
                <DigestValue>FLk4uFp8XcIUNLCRPJbj15lQgGDiv+sYPOfWM7HLelM=</DigestValue>
            </Reference>
        </SignedInfo>
        <SignatureValue>mPX/qAi/hD/eL90skSBQmrSk+sztzWysWCqornF2CcPpFL1G0SbFPvoYcK1Ij367COYczI/ISsTI
WlFTpg1iOWKeUXsjKevzH8hUsp+AcQ1JUjIDbgOgqHLkoQJZmzaPXmrNUcKzPnkaVeouxM7fj6z9
XBJvIQo45uhfIL1idfU8LWcySSlsS85dLinxZ5DWb8jLU3YeoE5MgTdF7MIeh2FXa/Tbo3Kwmj9F
z9fwI1QntWOJFQtJXjp5Mj8AcorCG6hW5HqAvQ3vAK/g1yXcm0U2rH9orCxg/BkVNVQHGcwhnxPL
FVtB+XYSOxXlZYfFsWHP4y0cXrIePg5pVAwuZw==</SignatureValue>
        <KeyInfo>
            <X509Data>
                <X509Certificate>MIIFRzCCBC+gAwIBAgIKQ3usFHZueA3xODANBgkqhkiG9w0BAQsFADBLMQswCQYDVQQGEwJBTDEN
MAsGA1UEChMETkFJUzEtMCsGA1UEAxMkTkFJUyBDbGFzcyAzIENlcnRpZmljYXRpb24gQXV0aG9y
aXR5MB4XDTIwMDIxMjA4Mjc1NFoXDTIxMDIxMTA4Mjc1NFowazELMAkGA1UEBhMCQUwxDzANBgNV
BAcTBlRpcmFuZTEMMAoGA1UEChMDR0RUMQ0wCwYDVQQMEwREZW1vMRkwFwYDVQQDExBHRFQgZUZp
c2thbGl6aW1pMRMwEQYDVQQEEwpJMDAwMDAwMDBJMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIB
CgKCAQEA9MenARDp1jxNbJldvG/VZSMfYNe5fjZq6qZoswFlRAvbi2fUfUonY7xZvJvH81/eWHqT
/YeF0fgSLampo3tJePADkhW94WPQN5t9CvKNSsrd3vYW/+xDYlObIyFTfkp1rSLuIsbMknznNfNV
lLqjsuH/VceFNvKF+NrFaxhmkcs8w2uBQiIeVLRUhiutu6yLoc76CukACiWK6Et53xiKL/X8pAsR
5M8oeCitUsL8+k1XYiHzOVidX0waNohFH9T916UU3shhYRKlCX/eyC6cEvUB7kJyE4NuQmx4GidY
hPYwdg+XcW3MAtX3+B7wJpmI2aknDZA2uLJSiH3xlEX+qQIDAQABo4ICCzCCAgcwZgYIKwYBBQUH
AQEEWjBYMCQGCCsGAQUFBzABhhhodHRwOi8vb2NzcC5ha3NoaS5nb3YuYWwwMAYIKwYBBQUHMAKG
JGh0dHA6Ly9jZXJ0cy5ha3NoaS5nb3YuYWwvY2xhc3MzLmNydDAOBgNVHQ8BAf8EBAMCBPAwHwYD
VR0jBBgwFoAUhyao+9srUZs50JjW9MYzVkdc2AUwHQYDVR0OBBYEFDOFw9CjLlJjD45hXejB9DKB
YkCGMEsGA1UdIAREMEIwQAYMKwYBBAGCsWwKAQEDMDAwLgYIKwYBBQUHAgEWImh0dHA6Ly93d3cu
YWtzaGkuZ292LmFsL3JlcG9zaXRvcnkwgacGA1UdHwSBnzCBnDCBmaCBlqCBk4YiaHR0cDovL2Ny
bC5ha3NoaS5nb3YuYWwvY2xhc3MzLmNybIZtbGRhcDovL2xkYXAuYWtzaGkuZ292LmFsL0NOPU5B
SVMgQ2xhc3MgMyBDZXJ0aWZpY2F0aW9uIEF1dGhvcml0eSxPPU5BSVMsQz1BTD9jZXJ0aWZpY2F0
ZVJldm9jYXRpb25MaXN0O2JpbmFyeTA3BgNVHREEMDAuoB0GCisGAQQBgjcUAgOgDwwNaW5mb0Bz
Z24udGVzdIENaW5mb0BzZ24udGVzdDAdBgNVHSUEFjAUBggrBgEFBQcDAgYIKwYBBQUHAwQwDQYJ
KoZIhvcNAQELBQADggEBAH6lp0sph1jPCofOOLwOskr9jmOLKZ+ufBvgOIfFDxiT93pF58hesmnN
qcReSkQNHsju6viNEVlSLJR3xk4OBOQiJ1g8/Rl6gxQPr0OTnXl76OJR8KGA7xOQalYEgPataVRi
rBs45TEICwbJWLXiq4GTgaxyRgxtzI2FY4C0lTk1pu/7m4ipEY7v8cC6oOCX9xH4GoM5Zl05n0kq
+c0coyopjzY9Gjv9aRo/+CbfMsFWrZGsis/WCwEfjzgIhcvYCi2qHKav7Pknrc08JURxK1hgqVpX
Px3v1bDy56SkTizpvPWUVM6oXcZTaqb6RD+GgzHcFfWiaTGDHt6qiDOcjSY=</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
aXR5MB4XDTIwMDIxMjA4Mjc1NFoXDTIxMDIxMTA4Mjc1NFowazELMAkGA1UEBhMCQUwxDzANBgNV
BAcTBlRpcmFuZTEMMAoGA1UEChMDR0RUMQ0wCwYDVQQMEwREZW1vMRkwFwYDVQQDExBHRFQgZUZp
c2thbGl6aW1pMRMwEQYDVQQEEwpJMDAwMDAwMDBJMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIB
CgKCAQEA9MenARDp1jxNbJldvG/VZSMfYNe5fjZq6qZoswFlRAvbi2fUfUonY7xZvJvH81/eWHqT
/YeF0fgSLampo3tJePADkhW94WPQN5t9CvKNSsrd3vYW/+xDYlObIyFTfkp1rSLuIsbMknznNfNV
lLqjsuH/VceFNvKF+NrFaxhmkcs8w2uBQiIeVLRUhiutu6yLoc76CukACiWK6Et53xiKL/X8pAsR
5M8oeCitUsL8+k1XYiHzOVidX0waNohFH9T916UU3shhYRKlCX/eyC6cEvUB7kJyE4NuQmx4GidY
hPYwdg+XcW3MAtX3+B7wJpmI2aknDZA2uLJSiH3xlEX+qQIDAQABo4ICCzCCAgcwZgYIKwYBBQUH
AQEEWjBYMCQGCCsGAQUFBzABhhhodHRwOi8vb2NzcC5ha3NoaS5nb3YuYWwwMAYIKwYBBQUHMAKG
JGh0dHA6Ly9jZXJ0cy5ha3NoaS5nb3YuYWwvY2xhc3MzLmNydDAOBgNVHQ8BAf8EBAMCBPAwHwYD
VR0jBBgwFoAUhyao+9srUZs50JjW9MYzVkdc2AUwHQYDVR0OBBYEFDOFw9CjLlJjD45hXejB9DKB
YkCGMEsGA1UdIAREMEIwQAYMKwYBBAGCsWwKAQEDMDAwLgYIKwYBBQUHAgEWImh0dHA6Ly93d3cu
YWtzaGkuZ292LmFsL3JlcG9zaXRvcnkwgacGA1UdHwSBnzCBnDCBmaCBlqCBk4YiaHR0cDovL2Ny
bC5ha3NoaS5nb3YuYWwvY2xhc3MzLmNybIZtbGRhcDovL2xkYXAuYWtzaGkuZ292LmFsL0NOPU5B
SVMgQ2xhc3MgMyBDZXJ0aWZpY2F0aW9uIEF1dGhvcml0eSxPPU5BSVMsQz1BTD9jZXJ0aWZpY2F0
ZVJldm9jYXRpb25MaXN0O2JpbmFyeTA3BgNVHREEMDAuoB0GCisGAQQBgjcUAgOgDwwNaW5mb0Bz
Z24udGVzdIENaW5mb0BzZ24udGVzdDAdBgNVHSUEFjAUBggrBgEFBQcDAgYIKwYBBQUHAwQwDQYJ
KoZIhvcNAQELBQADggEBAH6lp0sph1jPCofOOLwOskr9jmOLKZ+ufBvgOIfFDxiT93pF58hesmnN
qcReSkQNHsju6viNEVlSLJR3xk4OBOQiJ1g8/Rl6gxQPr0OTnXl76OJR8KGA7xOQalYEgPataVRi
rBs45TEICwbJWLXiq4GTgaxyRgxtzI2FY4C0lTk1pu/7m4ipEY7v8cC6oOCX9xH4GoM5Zl05n0kq
+c0coyopjzY9Gjv9aRo/+CbfMsFWrZGsis/WCwEfjzgIhcvYCi2qHKav7Pknrc08JURxK1hgqVpX
Px3v1bDy56SkTizpvPWUVM6oXcZTaqb6RD+GgzHcFfWiaTGDHt6qiDOcjSY=-----END RSA
PRIVATE KEY-----
```

Resulting signature value is:

- mPX/qAi/hD/eL90skSBQmrSk+sztzWysWCqornF2CcPpFL1G0SbFPvoYcK1Ij367COYczI/ISsTI
  WlFTpg1iOWKeUXsjKevzH8hUsp+AcQ1JUjIDbgOgqHLkoQJZmzaPXmrNUcKzPnkaVeouxM7fj6z9
  XBJvIQo45uhfIL1idfU8LWcySSlsS85dLinxZ5DWb8jLU3YeoE5MgTdF7MIeh2FXa/Tbo3Kwmj9F
  z9fwI1QntWOJFQtJXjp5Mj8AcorCG6hW5HqAvQ3vAK/g1yXcm0U2rH9orCxg/BkVNVQHGcwhnxPL
  FVtB+XYSOxXlZYfFsWHP4y0cXrIePg5pVAwuZw==

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:

- FLk4uFp8XcIUNLCRPJbj15lQgGDiv+sYPOfWM7HLelM=

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
Einvoice.</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>
    </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>
        </all>
        <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>
    </complexType>


    <complexType name="PaymentOrdersType">
        <sequence>
            <element name="PymtOrd" type="al:PaymentOrderType" minOccurs="1" maxOccurs="100">
                <annotation>
                    <documentation>Element representing a single payment order.</documentation>
                </annotation>
            </element>
        </sequence>
    </complexType>

    <complexType name="PaymentOrderItemType">
        <simpleContent>
            <extension base="string">
                <attribute name="EinFic" type="al:UUIDSType" use="required">
                    <annotation>
                        <documentation>Einvoice fic selected for payment.</documentation>
                    </annotation>
                </attribute>
                <attribute name="EinDatTim" type="al:UTCSType" use="required">
                    <annotation>
                        <documentation>Einvoice date time.</documentation>
                    </annotation>
                </attribute>
                <attribute name="EinNum" type="al:String100SType" use="required">
                    <annotation>
                        <documentation>Einvoice number.</documentation>
```

```
                </annotation>
            </attribute>
            <attribute name="EinPymtRefNum" type="al:String100SType" use="optional">
                <annotation>
                    <documentation>Einvoice payment reference number.</documentation>
                </annotation>
            </attribute>
            <attribute name="EinAmt" type="al:DecimalSType" use="required">
                <annotation>
                    <documentation>Einvoice amount.</documentation>
                </annotation>
            </attribute>
            <attribute name="EinCur" type="al:CurrencyCodeType" use="required">
                <annotation>
                    <documentation>Einvoice currency code.</documentation>
                </annotation>
            </attribute>
            <attribute name="EinPymtDesc" type="al:String100SType" use="required">
                <annotation>
                    <documentation>Einvoice 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 recipent name and surname.</documentation>
                </annotation>
            </attribute>
            <attribute name="PymtRecAddr" type="al:String100SType" use="required">
                <annotation>
                    <documentation>Payment recipent address.</documentation>
                </annotation>
            </attribute>
            <attribute name="PymtRecIBAN" type="al:IBANType" use="required">
                <annotation>
                    <documentation>Payment recipent 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 Einvoice</documentation>
                </annotation>
            </attribute>
            <attribute name="CurToBePaid" type="al:CurrencyCodeType" use="required">
                <annotation>
                    <documentation>Currency code to be paid for Einvoice</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>
    <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="PaidCur" type="al:CurrencyCodeType" use="required">
                    <annotation>
                        <documentation>Paid currency.</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>
        <restriction base="string">
            <minLength value="1"/>
            <maxLength value="100"/>
        </restriction>
    </simpleType>

    <simpleType name="UUIDSType">
        <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="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="NUISType">
        <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="BICType">
        <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="IBANType">
        <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>
            <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>
            <enumeration value="AUD"><annotation><documentation>Australia Dollar</documentation></annotation></enumeration>
            <enumeration value="AWG"><annotation><documentation>Aruba Guilder</documentation></annotation></enumeration>
            <enumeration value="AZN"><annotation><documentation>Azerbaijan Manat</documentation></annotation></enumeration>
            <enumeration value="BAM"><annotation><documentation>Bosnia and Herzegovina Convertible
Mark</documentation></annotation></enumeration>
            <enumeration value="BBD"><annotation><documentation>Barbados Dollar</documentation></annotation></enumeration>
            <enumeration value="BDT"><annotation><documentation>Bangladesh Taka</documentation></annotation></enumeration>
            <enumeration value="BGN"><annotation><documentation>Bulgaria Lev</documentation></annotation></enumeration>
            <enumeration value="BHD"><annotation><documentation>Bahrain Dinar</documentation></annotation></enumeration>
            <enumeration value="BIF"><annotation><documentation>Burundi Franc</documentation></annotation></enumeration>
            <enumeration value="BMD"><annotation><documentation>Bermuda Dollar</documentation></annotation></enumeration>
            <enumeration value="BND"><annotation><documentation>Brunei Darussalam Dollar</documentation></annotation></enumeration>
            <enumeration value="BOB"><annotation><documentation>Bolivia Boliviano</documentation></annotation></enumeration>
            <enumeration value="BRL"><annotation><documentation>Brazil Real</documentation></annotation></enumeration>
```

```
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<enumeration value="CHF"><annotation><documentation>Switzerland Franc</documentation></annotation></enumeration>
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<enumeration value="CUP"><annotation><documentation>Cuba Peso</documentation></annotation></enumeration>
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<enumeration value="ERN"><annotation><documentation>Eritrea Nakfa</documentation></annotation></enumeration>
<enumeration value="ETB"><annotation><documentation>Ethiopia Birr</documentation></annotation></enumeration>
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```

```
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            <enumeration value="SLL"><annotation><documentation>Sierra Leone Leone</documentation></annotation></enumeration>
            <enumeration value="SOS"><annotation><documentation>Somalia Shilling</documentation></annotation></enumeration>
            <enumeration value="SPL"><annotation><documentation>Seborga Luigino</documentation></annotation></enumeration>
            <enumeration value="SRD"><annotation><documentation>Suriname Dollar</documentation></annotation></enumeration>
            <enumeration value="STN"><annotation><documentation>Sao Tome and Principe Dobra</documentation></annotation></enumeration>
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            <enumeration value="THB"><annotation><documentation>Thailand Baht</documentation></annotation></enumeration>
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            <enumeration value="XDR"><annotation><documentation>International Monetary Fund (IMF) Special Drawing
Rights</documentation></annotation></enumeration>
            <enumeration value="XOF"><annotation><documentation>Communaute Financiere Africaine (BCEAO)
Franc</documentation></annotation></enumeration>
            <enumeration value="XPF"><annotation><documentation>Comptoirs Francais du Pacifique (CFP)
Franc</documentation></annotation></enumeration>
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    </simpleType>

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        <restriction base="string">
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                    <documentation>Cash type.</documentation>
                </annotation>
            </enumeration>
            <enumeration value="NON_CASH">
                <annotation>
                    <documentation>Non cash type.</documentation>
                </annotation>
            </enumeration>
        </restriction>
    </simpleType>

    <simpleType name="PaymentStatusType">
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        </annotation>
        <restriction base="string">
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                </annotation>
            </enumeration>
            <enumeration value="CORRECTION">
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                    <documentation>Correction type.</documentation>
                </annotation>
            </enumeration>
            <enumeration value="CANCELLATION">
                <annotation>
                    <documentation>Cancellation type.</documentation>
                </annotation>
            </enumeration>
            <enumeration value="ACCEPTED">
                <annotation>
                    <documentation>Accepted type.</documentation>
                </annotation>
            </enumeration>
            <enumeration value="REFUSED">
                <annotation>
                    <documentation>Refused type.</documentation>
                </annotation>
```

```
            </enumeration>
        </restriction>
    </simpleType>

    <simpleType name="ResponseCodeType">
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        </annotation>
        <restriction base="string">
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                    <documentation>Accepted type.</documentation>
                </annotation>
            </enumeration>
            <enumeration value="REFUSED">
                <annotation>
                    <documentation>Refused type.</documentation>
                </annotation>
            </enumeration>
            <enumeration value="VALIDATION_FAILED">
                <annotation>
                    <documentation>Validation failed type.</documentation>
                </annotation>
            </enumeration>
            <enumeration value="INTERNAL_ERROR">
                <annotation>
                    <documentation>Internal error type.</documentation>
                </annotation>
            </enumeration>
        </restriction>
    </simpleType>

</schema>
```

6. Annex – WSDL version 1

```xml
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions
 name="EinvoiceBankService"
 targetNamespace="https://Einvoice.tatime.gov.al/EinvoiceBankService"
 xmlns:al="https://Einvoice.tatime.gov.al/EinvoiceBankService"
 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://Einvoice.tatime.gov.al/EinvoiceBankService/schema"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

    <wsdl:types>
        <xsd:schema>
            <xsd:import namespace="https://Einvoice.tatime.gov.al/EinvoiceBankService/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">
        <wsdl:documentation>Element representing payment set notification response message.</wsdl:documentation>
        <wsdl:part element="als:SetPaymentNotificationResponse" name="response"/>
    </wsdl:message>

    <wsdl:portType name="EinvoiceBankServicePortType">
        <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="EinvoiceBankServiceSoap" type="al:EinvoiceBankServicePortType">
        <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
        <wsdl:operation name="getPaymentOrders">
            <soap:operation soapAction="https://Einvoice.tatime.gov.al/EinvoiceBankService/getPaymentOrders"/>
            <wsdl:input>
                <soap:body use="literal"/>
            </wsdl:input>
            <wsdl:output>
                <soap:body use="literal"/>
            </wsdl:output>
        </wsdl:operation>
        <wsdl:operation name="setPaymentNotifications">
            <soap:operation soapAction="https://Einvoice.tatime.gov.al/EinvoiceBankService/setPaymentNotifications"/>
            <wsdl:input>
                <soap:body use="literal"/>
            </wsdl:input>
            <wsdl:output>
                <soap:body use="literal"/>
            </wsdl:output>
        </wsdl:operation>
    </wsdl:binding>

    <wsdl:service name="EinvoiceBankService">
        <wsdl:port name="EinvoiceBankServicePort" binding="al:EinvoiceBankServiceSoap">
            <soap:address location="https://Einvoice.tatime.gov.al/EinvoiceBankService-v1"/>
        </wsdl:port>
    </wsdl:service>

</wsdl:definitions>
```