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European eInvoicing Standard in Italy

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Design of the communication services between SATER and NoTI-ER

Deliverable D3.5

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Executive Summary

This document describes the implementation required by the project EeISI to update the design of the communication services between SATER and the interoperability node of Intercent-ER (NoTI-ER).

Glossary

|  |  |
| --- | --- |
| **B2B** | Business to Business |
| **B2C** | Business to Consumer/Citizen |
| **B2G** | Business to Government |
| **BII** | Business Interoperability Interfaces |
| **C2G** | Citizen to Government |
| **CCTS** | Core Component Technical Specification |
| **CEF** | Connecting Europe Facility |
| **CEM** | Certified Electronic Mail – Legal Mail (PEC Posta Elettronica Certificata in Italy) |
| **CEN** | European Committee for Standardisation |
| **CII** | Cross Industry electronic Invoice |
| **CIUS** | Core Invoice Usage Specification |
| **DSI** | Digital Service Infrastructures |
| **DDT** | Documento di Trasporto (Transport Document) |
| **e-SENS** | Electronic Simple European Networked Services |
| **FatturaPA** | Public administration electronic invoice framework (FatturaPubblica Amministrazione) |
| **G2G** | Government to Government |
| **INEA** | Innovation and Networks Executive Agency |
| **IPA** | Index of Public Administration |
| **MD** | Mandatory |
| **OASIS** | Organization for the Advancement of Structured Information Standards |
| **PEPPOL** | Pan-European Public Procurement Online |
| **PEPPOL-BIS** | Pan-European Public Procurement Online Business Interoperability Specifications |
| **SDI** | Electronic exchange system in Italy (Sistema Di Interscambio) |
| **SMP** | Service Metadata Publisher |
| **UBL** | Universal Business Language |
| **UN/CEFACT** | United Nations Centre for Trade Facilitation and Electronic Business |
| **UNTDID** | UN Trade Data Interchange Directory |
| **URI** | Uniform Resource Identifier |
| **URL** | Uniform Resource Location |
| **URN** | Uniform Resource Name |
| **XML** | Extensible Mark-up Language |

1. Introduction

The purpose of this document is describing the changes implemented by Intercent-ER, through the “Nodo Telematico di Interscambio dell’Emilia-Romagna” (NoTI-ER), at the services offered to small and medium-sized enterprises.

Those amendments arise from the need of aligning the regional systems with what is required at the European level, included in the project EeISI (European eInvoicing Standard in Italy).

More precisely, the Economic Operators can now manage Invoice documents in UBL BIS 3.0. format, and they can manage the IMR notifications flow (Invoice Message Response) associated to a specific document, as the Peppol Authority requires.

The following sections list the major implementations of NoTI-ER’s services, in this context.

1. “Recupero lista documenti” service

The REST service “Recupero Lista Documenti” allows the platform to recover a list of all the orders, DDT and Notifications associated to the main documents (e.g. Invoices) addressed to a certain Economic Operator.

When the HTTP Request Get isinvoked, towards the address GET https://<host-NoTIER>:<porta-NoTIER>/notier/rest/v1.0/PMI/lista, it is now possible to demand the list of all the IMR Notifications associated to BIS 3.0 format Invoice, as described in the table 1 below.

| **Filter** | **Description** | **MD** |
| --- | --- | --- |
| idnotier | NoTI-ER identification code of documents’ receiving party  **Example:**  /notier/rest/v1.0/PMI/lista/?idnotier=org-002 | YES |
| tipodoc | Returns the list of all the documents intended for the caller, having the typology specified  Valid Values:  ORDINE, DOCUMENTO\_DI\_TRASPORTO, NOTIFICA\_MDN, RICEVUTA\_DI\_CONSEGNA, NOTIFICA\_DI\_SCARTO, NOTIFICA\_DI MANCATA\_CONSEGNA, NOTIFICA\_DI\_ESITO\_CEDENTE, NOTIFICA\_DI\_DECORRENZA TERMINI, AVVENUTA\_TRASMISSIONE\_CON\_IMPOSSIBILITÀ\_DI\_RECAPITO  **Example**:  /notier/rest/v1.0/PMI/lista/?tipodoc=ordine | NO |
| stato\_giacenza | Returns the list of all the documents intended for the caller, having the parameter “stato giacenza” specified.  Valid Values:  DA\_RECAPITARE, IN\_LAVORAZIONE, RECAPITATO  **Example**:  /notier/rest/v1.0/PMI/lista/?stato\_giacenza=da\_recapitare | NO |
| data\_inizio | Parameter used to enable the filtering through **data of receipt (Notier)** of the Documents list; it reveals start date.  Date must be GGMMAAAA format.  **Example**:  /notier/rest/v1.0/PMI/lista/?data\_inizio=01012014 | NO |
| data\_fine | Parameter used to enable the filtering through **“date of sending”** of the Documents list; it indicates the end date  Date must be GGMMAAAA format.  **Example**:  /notier/rest/v1.0/PMI/lista//?data\_fine=01012014 | NO |
| inizio | Parameter used to enable the **pagination** of the Documents list; it reveals the index to begin the pagination.  **Example**:  /notier/rest/v1.0/PMI/lista/?inizio=1&offset=100 | YES |
| offset | Parameter used to enable the **pagination** of the Documents list; it indicates the number of documents to return starting from the value of the parameter “inizio”.    **Example**:  /notier/rest/v1.0/PMI/lista/??inizio=1&offset=100 | YES |

**Table 1**

Consequently, the Response XML is composed as follows (*Table 2)*.

| **XML tag** | **Description** | **Constraints** | **Data type** | **Example** | **MD** |
| --- | --- | --- | --- | --- | --- |
| **Start Section <EsitoLista> [1..1]** | | | | | |
| **Versione** | XML version of subscription service | max. 10 characters | String | 1.0 | YES |
| **Start Section <EsitoLista>/<Esito> [1..1]** | | | | | |
| **CodiceEsito** | Outcome of the request.  OK if positive; KO if negative | Valid values:   * OK * KO | Default type | OK | YES |
| **CodiceErrore** | Defines the error code | Present if CodiceEsito=KO | Default type | ERR-000-GENERICO | NO |
| **DescrizioneErrore** | Error description | Present if CodiceEsito=KO | String | “Sistema NoTIER attualmente non disponibile” | NO |
| **End Section <EsitoLista>/<Esito>** | | | | | |
| **Start Section <EsitoLista>/<ListaDocumenti> [0..1]** | | | | | |
| **NumeroDocumenti** | Numbers of documents found in return of metadata sent |  | Numerical | 20 | YES |
| **Start Section <EsitoLista>/<ListaDocumenti>/<Documenti> [0..1]** | | | | | |
| **Start Section <EsitoLista>/<ListaDocumenti>/<Documenti>/<Documento> [0..]** | | | | | |
| **Destinatario** | NoTIER identification code of the receiving party | max. 50 characters | String | ORG-001 | YES |
| **CodiceFiscaleDestinatario** | Fiscal Code of the receiving party | max. 20 characters | String | 91252510374 | YES |
| **IdPeppolDestinatario** | Peppol identification of the document’s receving party | max. 50 characters | String | 9907:91252510374 | YES |
| **Urn** | Identifier of the document in NoTI-ER | max. 1024 characters | String | urn:notier:IORG-001:2014:2\_85:ORDINE | YES |
| **DataRicezioneNotier** | Date and time assigned by NoTI-ER upon receipt of the document | max. 1024 characters | String | urn:notier:IORG-001:2014:2\_85:ORDINE | YES |
| **StatoGiacenza** | Status of the receiving session of the document | Valid values:   * DA\_RECAPITARE * IN\_LAVORAZIONE * RECAPITATO | Default type | RECAPITATO | NO |
| **Start Section <EsitoLista>/<ListaDocumenti>/<Documenti>/<Documento>/<Chiave> [1..1]** | | | | | |
| **CodiceFiscaleMittente** | Fiscal Code of Sending Party | max. 20 characters | String | 91252510374 | YES |
| **Anno** | Year of the document | 4 characters | Numerical | 2015 | YES |
| **Numero** | Document number | max. 50 characters | String | 1/8 | YES |
| **TipoDocumento** | Type of document | Valid values:   * ORDINE * DOCUMENTO\_DI\_TRASPORTO * NOTIFICA\_MDN * RICEVUTA\_DI\_CONSEGNA * NOTIFICA\_DI\_SCARTO * NOTIFICA\_DI\_MANCATA\_CONSEGNA * NOTIFICA\_DI\_ESITO\_CEDENTE * NOTIFICA\_DI\_DECORRENZA\_TERMINI * AVVENUTA\_TRASMISSIONE\_CON\_IMPOSSIBILITÀ\_DI\_RECAPITO | Default type | ORDINE | YES |
| **End Section <EsitoLista>/<ListaDocumenti>/<Documenti>/<Documento>/<Chiave>** | | | | | |
| **End Section <EsitoLista>/<ListaDocumenti>/<Documenti>/<Documento>** | | | | | |
| **End Section <EsitoLista>/<ListaDocumenti>/<Documenti>** | | | | | |
| **End Section <EsitoLista>/<ListaDocumenti>** | | | | | |
| **End Section <EsitoLista>** | | | | | |

**Table 2**

1. “Recupero documento” service

The REST service “Recupero Documento” allows to:

* Recover a single document. In addition to that a new functionality was implemented: the possibility of recovering all the IMR notifications associated to the Invoice flow (Delivery receipt, Notification of rejection, Notification of delivery failure, Notification outcome transmitting party – Approved, Notification outcome transmitting party – Rejected, Notification of deadline terms, Notification of Invoice transmission with impossibility on delivery), in XML or HTML format (transformed by the active stylesheet on NoTI-ER);
* Recover the attachments available in the orders (or transport documents) in the ZIP archive format.

The URL to invoke the service is GET https://<host-NoTIER>:<porta-NoTIER>/notier/rest/v1.0/PMI/dettaglio/{urn\_documento}?formato={formato}. The Request has to be a GET HTTP towards this address

The platform needs to update the string {urn\_documento} with the URN of the Document (Order, DDT, MDN notification, Delivery receipt, Notification of rejection, Notification of delivery failure, Notification outcome transmitting party – Approved, Notification outcome transmitting party – Rejected, Notification of deadline terms, Notification of Invoice transmission with impossibility on delivery) related to the company from which there is the need of recovering the document (among the list).   
The parameter *{formato}* represents the document format that is intended to recover and admits the same values (XML, HTML, Zip). The XML of the response, produced in the negative case (plus the “error codes”) remains the same.

1. “Invio documento” service

“Invio Documento” is the service that permits to send the Invoice. The Invoice needs to be compliant with the UBL BIS 3.0 format requirements. With regards of XSD scheme, please refer to the Peppol official document (<https://docs.peppol.eu/poacc/billing/3.0/>).

The URL to invoke the service is POST https://<host-NoTIER>:<porta-NoTIER>/notier/rest/v1.0/PMI/caricamento; metadata that need to be sent are set out by XSD “InvioDDT”. “InvioDDT” denomination refers both to “transport documents (DDT) and Invoices. In the following table (*Table 3*), you can find the description of the scheme’s fields.

| **XML tag** | **Description** | **Constraints** | **Data type** | **Example** | **MD** |
| --- | --- | --- | --- | --- | --- |
| **Start Section <**InvioDDT**> [1..1]** | | | | | |
| **Versione** | XML version of subscription service | max. 10 characters | String | 1.0 | YES |
| **Start Section <**InvioDDT**>/<Configurazione> [1..1]** | | | | | |
| **AccettaChiaveDuplicata** | If “*true”,* it allows the transmitting party to send a document that has the same key of a document already in the system |  | Boolean | true | YES |
| **End Section <**InvioDDT**>/<Configurazione>** | | | | | |
| **Start Section <**InvioDDT**>/<Collegamento> [0..1]** | | | | | |
| **Urn** | Urn NoTIER of the document to link | max. 256 characters | String |  | YES |
| **End Section <**InvioDDT**>/<Collegamento>** | | | | | |
| **Start Section <**InvioDDT**>/<Documento> [0..1]** | | | | | |
| **Start Section <**InvioDDT**>/<Documento>/<Chiave> [1..1]** | | | | | |
| **CodiceFiscaleMittente** | Fiscal Code of Sending Party | max. 20 characters | String | 91252510374 | YES |
| **Anno** | Year of the document | 4 characters | Numerical | 2015 | YES |
| **Numero** | Document number wich identifies univocally the transport document | max. 50 characters | String | 300-0000000001 | YES |
| **End Section <**InvioDDT**>/<Documento>/<Chiave>** | | | | | |
| **End Section <**InvioDDT**>/<Documento>** | | | | | |
| **Start Section <**InvioDDT**>/<MetadatiBusdox> [0..1]** | | | | | |
| **RecipientIdentifier** | Busdox identification of document’s receiving party | max. 254 characters | String | 0201:IT78K5FY | YES |
| **SenderIdentifier** | Busdox identification of document’s sending party (participant ID) | max. 254 characters | String | 9906:IT02249070356 | YES |
| **DocumentIdentifier** | Busdox identification of the type of the document | Valid values:   * urn:oasis:names:specification:ubl:schema:xsd:DespatchAdvice-2::DespatchAdvice##urn:www.cenbii.eu:transaction:biitrns016:ver1.0:extended:urn:www.peppol.eu:bis:peppol30a:ver1.0:extended:urn:www.ubl-italia. org:spec:ddt:ver2.1::2.1 * urn:oasis:names:specification:ubl:schema:xsd:Invoice-2::Invoice##urn:www.cenbii.eu:transaction:biitrns010:ver2.0:extended:urn:www.peppol.eu:bis:peppol5a:ver2.0:extended:urn:www.ubl-italia.org:spec:fatturapa:ver2.0:extended:urn:cen.eu:en16931:2017#compliant#urn:fdc:peppol.eu:2017:poacc:billing:3.0::2.1 | String | * urn:oasis:names:specification:ubl:schema:xsd:DespatchAdvice- * 2::DespatchAdvice##urn:www.cenbii.eu:transaction:biitrns016:ver1.0:extended:urn:www.peppol.eu:bis:peppol30a:ver1.0:extended:urn:www.ub-litalia. org:spec:ddt:ver2.1::2.1 | YES |
| **ProcessIdentifier** | Busdox identification of the process in which the document is utilized | Valid values:   * urn:www.cenbii.eu:profile:bii30:ver2.0 * urn:fdc:peppol.eu:2017:poacc:billing:01:1.0 | String | urn:www.cenbii.eu:profile:bii03:ver2.0 | YES |
| **End Section <**InvioDDT**>/<MetadatiBusdox>** | | | | | |
| **End Section <**InvioDDT**>** | | | | | |

**Tabella 3**

**N.B:**  in the event of the sending of Invoice, the provision of sending towards SdI or towars the Peppol network depends on the presence, or not, of Busdox Metadata.

If Busdox Metadata exist in the Request XML of Metadata, it’s intended the will of sending towards the Peppol netwpork and so this action is executed. On the other hand, in case of absence of Busdox Medata, the Invoice is sent towards SdI. “EsitoInvioDDT” XSD depicts the Response XML produced.   
*Table 4* describes the fields reported into the scheme, to which the Invoice document type has been added.

| **XML tag** | **Description** | **Constraints** | **Type** | **Example** | **MD** |
| --- | --- | --- | --- | --- | --- |
| **Start section <EsitoRispostaInserimentoDDT> [1..1]** | | | | | |
| **Versione** | XML version of subscription service | max. 10 characters | String | 1.0 | YES |
| **Start section <EsitoRispostaInserimentoDDT>/<Esito> [1..1]** | | | | | |
| **CodiceEsito** | Outcome of the request.  OK if positive; KO if negative | Valid values:   * OK * KO | Default type | OK | YES |
| **CodiceErrore** | Defines the error code | Present if CodiceEsito=KO | Default type | ERR-000-GENERICO | NO |
| **DescrizioneErrore** | Error description | Present if CodiceEsito=KO | String | “Sistema NoTIER attualmente non disponibile” | NO |
| **End section <EsitoRispostaInserimentoDDT >/<Esito>** | | | | | |
| **Start section <EsitoRispostaInserimentoDDT >/<Documento> [1..1]** | | | | | |
| **Urn** | Document identifier in NoTI-ER | max. 1024 characters | String | urn:notier:IORG-001:2015:2\_85:CA:FATTURA | YES |
| **DataRicezioneNotier** | Date and time assigned by NoTI-ER upon receipt of the document |  | Data |  | YES |
| **Start section <EsitoRispostaInserimentoDDT>/<Documento>/<Chiave> [1..1]** | | | | | |
| **CodiceFiscaleMittente** | Fiscal Code of Sending Party | max. 50 characters | String | 91252510374 | YES |
| **Anno** | Year of the document | 4 characters | Numerical | 2014 | YES |
| **Numero** | Document number | max. 50 characters | String | 1/8 | YES |
| **TipoDocumento** | Type of document | Valid values:  -DOCUMENTO DI TRASPORTO  - FATTURA | Default type | DOCUMENTO DI TRASPORTO | YES |
| **End section <EsitoRispostaInserimentoDDT>/<Documento>/<Chiave>** | | | | | |
| **End section < EsitoRispostaInserimentoDDT >/<Documento>** | | | | | |
| **End section < EsitoRispostaInserimentoDDT >** | | | | | |

**Tabella 4**

1. Service REST XSD



6. 1. XSD Response of “Recupero Lista Documenti” service

<?xml version="1.0" encoding="utf-8"?>

<?xml-stylesheet type="text/xsl" href="xs3p.xsl"?>

<xs:schema

xmlns="http://notier.intercenter.rer.it/services/1.0/documenti/response"

targetNamespace="http://notier.intercenter.rer.it/services/1.0/documenti/response"

version="1.0" xmlns:xs="http://www.w3.org/2001/XMLSchema"

elementFormDefault="qualified" attributeFormDefault="unqualified">

<xs:element name="EsitoLista">

<xs:complexType>

<xs:sequence>

<xs:element name="Versione" type="TokenNVMax10Type"

minOccurs="1" maxOccurs="1" />

<xs:element name="Esito" type="EsitoType" minOccurs="1"

maxOccurs="1" />

<xs:element name="ListaDocumenti" type="ListaDocumentiType"

minOccurs="0" maxOccurs="1" />

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:complexType name="ListaDocumentiType">

<xs:sequence>

<xs:element name="NumeroDocumenti" type="xs:integer"

minOccurs="1" maxOccurs="1" />

<xs:element name="Documenti" type="DocumentiType"

minOccurs="0" maxOccurs="1" />

</xs:sequence>

</xs:complexType>

<xs:complexType name="DocumentiType">

<xs:sequence>

<xs:element name="Documento" type="DocumentoType"

minOccurs="0" maxOccurs="unbounded" />

</xs:sequence>

</xs:complexType>

<xs:complexType name="EsitoType">

<xs:sequence>

<xs:element name="CodiceEsito" type="CodiceEsitoType"

minOccurs="1" maxOccurs="1" />

<xs:element name="CodiceErrore" type="CodiceErrore"

minOccurs="0" maxOccurs="1" />

<xs:element name="DescrizioneErrore" type="TokenNVMax1024Type"

minOccurs="0" maxOccurs="1" />

</xs:sequence>

</xs:complexType>

<xs:complexType name="DocumentoType">

<xs:sequence>

<xs:element name="Destinatario" type="TokenNVMax50Type"

minOccurs="1" maxOccurs="1" />

<xs:element name="CodiceFiscaleDestinatario" type="TokenNVMax20Type"

minOccurs="1" maxOccurs="1" />

<xs:element name="IdPeppolDestinatario" type="TokenNVMax50Type"

minOccurs="1" maxOccurs="1" />

<xs:element name="IdPeppolMittente" type="TokenNVMax50Type"

minOccurs="1" maxOccurs="1" />

<xs:element name="Urn" type="TokenNVMax1024Type"

minOccurs="1" maxOccurs="1" />

<xs:element name="DataRicezioneNotier" type="xs:dateTime"

minOccurs="1" maxOccurs="1" />

<xs:element name="StatoGiacenza" type="StatoGiacenzaType"

minOccurs="0" maxOccurs="1" />

<xs:element name="Chiave" type="ChiaveDocumentoType"

minOccurs="1" maxOccurs="1" />

</xs:sequence>

</xs:complexType>

<xs:complexType name="ChiaveDocumentoType">

<xs:sequence>

<xs:element name="CodiceFiscaleMittente" type="TokenNVMax20Type"

minOccurs="1" maxOccurs="1" />

<xs:element name="Anno" type="IntMax4DgtType" minOccurs="1"

maxOccurs="1" />

<xs:element name="Numero" type="TokenNVMax50Type"

minOccurs="1" maxOccurs="1" />

<xs:element name="TipoDocumento" type="TipoDocumentoType"

minOccurs="1" maxOccurs="1" />

</xs:sequence>

</xs:complexType>

<xs:simpleType name="CodiceEsitoType">

<xs:restriction base="xs:NMTOKEN">

<xs:enumeration value="OK" />

<xs:enumeration value="KO" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="CodiceErrore">

<xs:restriction base="xs:NMTOKEN">

<xs:enumeration value="ERR-000-GENERICO" />

<xs:enumeration value="ERR-LISTADOC-000-RICHIESTA-NON-VALIDA" />

<xs:enumeration value="ERR-LISTADOC-002-NON-TROVATO" />

<xs:enumeration value="ERR-LISTADOC-003-NON-AUTORIZZATO" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="StatoGiacenzaType">

<xs:restriction base="xs:NMTOKEN">

<xs:enumeration value="DA\_RECAPITARE" />

<xs:enumeration value="IN\_LAVORAZIONE" />

<xs:enumeration value="RECAPITATO" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TokenNVMax254Type">

<xs:restriction base="xs:token">

<xs:minLength value="1" />

<xs:maxLength value="254" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TokenNVMax50Type">

<xs:restriction base="xs:token">

<xs:minLength value="1" />

<xs:maxLength value="50" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TokenNVMax20Type">

<xs:restriction base="xs:token">

<xs:minLength value="1" />

<xs:maxLength value="20" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TokenNVMax10Type">

<xs:restriction base="xs:token">

<xs:minLength value="1" />

<xs:maxLength value="10" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="FormatoType">

<xs:restriction base="xs:NMTOKEN">

<xs:enumeration value="UBL" />

<xs:enumeration value="SDI" />

<xs:enumeration value="PARER" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TokenNVMax1024Type">

<xs:restriction base="xs:token">

<xs:minLength value="1" />

<xs:maxLength value="1024" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TipoDocumentoType">

<xs:restriction base="xs:NMTOKEN">

<xs:enumeration value="DOCUMENTO\_DI\_TRASPORTO" />

<xs:enumeration value="ORDINE" />

<xs:enumeration value="NOTIFICA\_MDN" />

<xs:enumeration value="NOTIFICA\_DI\_SCARTO" />

<xs:enumeration value="ATTESTAZIONE\_DI\_FILE\_NON\_RECAPITABILE"/>

<xs:enumeration value="NOTIFICA\_DI\_DECORRENZA\_TERMINI"/>

<xs:enumeration value="NOTIFICA\_DI\_ESITO\_CEDENTE"/>

<xs:enumeration value="NOTIFICA\_DI\_MANCATA\_CONSEGNA"/>

<xs:enumeration value="RICEVUTA\_DI\_CONSEGNA"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="IntMax4DgtType">

<xs:restriction base="xs:integer">

<xs:minInclusive value="0" />

<xs:maxInclusive value="9999" />

</xs:restriction>

</xs:simpleType>

</xs:schema>

* 1. XSD Metadata Request of “Invio Documento” service

<?xml version="1.0" encoding="utf-8"?>

<?xml-stylesheet type="text/xsl" href="xs3p.xsl"?>

<xs:schema xmlns="http://notier.intercenter.rer.it/services/1.0/caricamento/request"

targetNamespace="http://notier.intercenter.rer.it/services/1.0/caricamento/request"

version="1.0" xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"

attributeFormDefault="unqualified">

<xs:element name="InvioDDT">

<xs:complexType>

<xs:sequence>

<xs:element name="Versione" type="TokenNVMax10Type" minOccurs="1" maxOccurs="1"/>

<xs:element name="Configurazione" type="ConfigurazioneType" minOccurs="1" maxOccurs="1"/>

<xs:element name="Collegamento" type="CollegamentoType" minOccurs="0" maxOccurs="1"/>

<xs:element name="Documento" type="DocumentoType" maxOccurs="1"/>

<xs:element name="MetadatiBusdox" type="MetadatiBusdoxType" minOccurs="0"

maxOccurs="1"/>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:complexType name="ConfigurazioneType">

<xs:sequence>

<xs:element name="AccettaChiaveDuplicata" type="xs:boolean" minOccurs="1" maxOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="CollegamentoType">

<xs:sequence>

<xs:element name="Urn" type="TokenNVMax1024Type"

minOccurs="1" maxOccurs="1" />

</xs:sequence>

</xs:complexType>

<xs:complexType name="DocumentoType">

<xs:sequence>

<xs:element name="Chiave" type="ChiaveDocumentoType" minOccurs="1" maxOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:complexType name="ChiaveDocumentoType">

<xs:sequence>

<xs:element name="CodiceFiscaleMittente" type="TokenNVMax20Type" minOccurs="1" maxOccurs="1"/>

<xs:element name="Anno" type="IntMax4DgtType" minOccurs="1" maxOccurs="1"/>

<xs:element name="Numero" type="TokenNVMax50Type" minOccurs="1" maxOccurs="1"/>

<xs:element name="TipoDocumento" type="TipoDocumentoType" minOccurs="0" maxOccurs="1" />

</xs:sequence>

</xs:complexType>

<xs:complexType name="MetadatiBusdoxType">

<xs:sequence>

<xs:element name="RecipientIdentifier" type="TokenNVMax254Type" minOccurs="1"

maxOccurs="1"/>

<xs:element name="SenderIdentifier" type="TokenNVMax254Type" minOccurs="1" maxOccurs="1"/>

<xs:element name="DocumentIdentifier" type="TokenNVMax1024Type" minOccurs="1"

maxOccurs="1"/>

<xs:element name="ProcessIdentifier" type="TokenNVMax1024Type" minOccurs="1"

maxOccurs="1"/>

</xs:sequence>

</xs:complexType>

<xs:simpleType name="TokenNVMax1024Type">

<xs:restriction base="xs:token">

<xs:minLength value="1"/>

<xs:maxLength value="1024"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TokenNVMax254Type">

<xs:restriction base="xs:token">

<xs:minLength value="1"/>

<xs:maxLength value="254"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TokenNVMax50Type">

<xs:restriction base="xs:token">

<xs:minLength value="1"/>

<xs:maxLength value="50"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TokenNVMax20Type">

<xs:restriction base="xs:token">

<xs:minLength value="1"/>

<xs:maxLength value="20"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TokenNVMax10Type">

<xs:restriction base="xs:token">

<xs:minLength value="1"/>

<xs:maxLength value="10"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="IntMax4DgtType">

<xs:restriction base="xs:integer">

<xs:minInclusive value="0"/>

<xs:maxInclusive value="9999"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TipoDocumentoType">

<xs:restriction base="xs:NMTOKEN">

<xs:enumeration value="DOCUMENTO\_DI\_TRASPORTO" />

<xs:enumeration value="ORDINE" />

<xs:enumeration value="NOTA\_DI\_CREDITO" />

<xs:enumeration value="FATTURA" />

</xs:restriction>

</xs:simpleType>

</xs:schema>

* 1. XSD Response of “Invio Documento” service

<?xml version="1.0" encoding="utf-8"?>

<?xml-stylesheet type="text/xsl" href="xs3p.xsl"?>

<xs:schema xmlns="http://notier.intercenter.rer.it/services/1.0/caricamento/response"

targetNamespace="http://notier.intercenter.rer.it/services/1.0/caricamento/response" version="1.0"

xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"

attributeFormDefault="unqualified">

<xs:element name="EsitoRispostaInserimentoDDT">

<xs:complexType>

<xs:sequence>

<xs:element name="Versione" type="TokenNVMax10Type"

minOccurs="1" maxOccurs="1" />

<xs:element name="Esito" type="EsitoType" minOccurs="1"

maxOccurs="1" />

<xs:element name="Documento" type="DocumentType"

minOccurs="0" maxOccurs="1" />

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:complexType name="EsitoType">

<xs:sequence>

<xs:element name="CodiceEsito" type="CodiceEsitoType"

minOccurs="1" maxOccurs="1" />

<xs:element name="CodiceErrore" type="CodiceErrore"

minOccurs="0" maxOccurs="1" />

<xs:element name="DescrizioneErrore" type="TokenNVMax4096Type"

minOccurs="0" maxOccurs="1" />

</xs:sequence>

</xs:complexType>

<xs:simpleType name="CodiceEsitoType">

<xs:restriction base="xs:NMTOKEN">

<xs:enumeration value="OK" />

<xs:enumeration value="KO" />

<xs:enumeration value="WARN" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="CodiceErrore">

<xs:restriction base="xs:NMTOKEN">

<xs:enumeration value="ERR-000-GENERICO" />

<xs:enumeration value="ERR-INSERIMENTO-000-RICHIESTA-NON-VALIDA" />

<xs:enumeration value="ERR-INSERIMENTO-001-XML-NON-VALIDO" />

<xs:enumeration value="ERR-INSERIMENTO-002-MITT-NON-VALIDO" />

<xs:enumeration value="ERR-INSERIMENTO-003-DOC-NON-VALIDO-XSD" />

<xs:enumeration value="ERR-INSERIMENTO-004-DOC-NON-VALIDO-SCHEMATRON" />

<xs:enumeration value="ERR-INSERIMENTO-005-DOC-DUPLICATO" />

<xs:enumeration value="ERR-INSERIMENTO-006-NON-AUTORIZZATO" />

</xs:restriction>

</xs:simpleType>

<xs:complexType name="DocumentType">

<xs:sequence>

<xs:element name="Urn" type="TokenNVMax1024Type"

minOccurs="1" maxOccurs="1" />

<xs:element name="DataRicezioneNotier" type="xs:dateTime"

minOccurs="1" maxOccurs="1" />

<xs:element name="Chiave" type="ChiaveDocumentType"

minOccurs="1" maxOccurs="1" />

</xs:sequence>

</xs:complexType>

<xs:complexType name="ChiaveDocumentType">

<xs:sequence>

<xs:element name="CodiceFiscaleMittente" type="TokenNVMax20Type"

minOccurs="1" maxOccurs="1" />

<xs:element name="Anno" type="IntMax4DgtType" minOccurs="1"

maxOccurs="1" />

<xs:element name="Numero" type="TokenNVMax50Type"

minOccurs="1" maxOccurs="1" />

<xs:element name="TipoDocumento" type="TipoDocumentoType"

minOccurs="1" maxOccurs="1" />

</xs:sequence>

</xs:complexType>

<xs:simpleType name="TokenNVMax10Type">

<xs:restriction base="xs:token">

<xs:minLength value="1" />

<xs:maxLength value="10" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TokenNVMax20Type">

<xs:restriction base="xs:token">

<xs:minLength value="1" />

<xs:maxLength value="20" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TokenNVMax1024Type">

<xs:restriction base="xs:token">

<xs:minLength value="1" />

<xs:maxLength value="1024" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TokenNVMax4096Type">

<xs:restriction base="xs:token">

<xs:minLength value="1" />

<xs:maxLength value="4096" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="IntMax4DgtType">

<xs:restriction base="xs:integer">

<xs:minInclusive value="0" />

<xs:maxInclusive value="9999" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TipoDocumentoType">

<xs:restriction base="xs:NMTOKEN">

<xs:enumeration value="DOCUMENTO\_DI\_TRASPORTO" />

<xs:enumeration value="ORDINE" />

<xs:enumeration value="NOTIFICA\_MDN" />

<xs:enumeration value="FATTURA" />

<xs:enumeration value="NOTA\_DI\_CREDITO" />

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="TokenNVMax50Type">

<xs:restriction base="xs:token">

<xs:minLength value="1" />

<xs:maxLength value="50" />

</xs:restriction>

</xs:simpleType>

</xs:schema>