|  |
| --- |
|  |



European eInvoicing Standard in Italy

|  |  |
| --- | --- |
| **Project number** | INEA/CEF/ICT/A2017/1560867 2017-IT-IA-0150 |
| **Project acronym** | EeISI |
| **Project title** | European eInvoicing Standard in Italy |
| **Starting date** | 1 May 2018 |
| **Ending date** | 31 December 2019 |
| **Programme** | Connecting Europe Facility (CEF) CEF-TC-2017-3: eInvoicing |

Design of the web interface in SATER

Deliverable D3.4

|  |  |
| --- | --- |
| **Related WP** | WP3 – Design – Task 3.2 Systems evolution |
| **Deliverable number** | D3.4 |
| **Due date** | 30/11/2018 |
| **Revision date** | 30/11/2018 |
| **Actual date** | 30/11/2018 |

This Page Intentionally Left Blank

Deliverable Info

|  |  |
| --- | --- |
| **Editor (s)** | **Intercent-ER** |
| **Contributors** |  |
|  |  |
|  |  |
| **Acknowledgement** | This work was partially supported by the European Commission (EC) through the Connecting Europe Facility (CEF) programme under project EeISI.(grant agreement no. INEA/CEF/ICT/A2017/1560867 2017-IT-IA-0150) |
| **Disclaimer** | The sole responsibility of this publication lies with the author(s). The European Union is not responsible for any use that may be made of the information contained therein. |
| **Confidentiality** | The information in this document is confidential and restricted only to the members of the EeISI consortium  (including the Commission Services). |
|  |  |
| **Note** | - |
|  |  |

**Version Control**

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Author | Description of change |
| 0.2 | 30/11/2018 | Intercent-ER |  |
| 0.2.1 | 31/03/2020 | Roberto Reale | Technical review and quality assessment |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

This Page Intentionally Left Blank

Table of contents

[Deliverable Info 3](#_Toc24436807)

[Table of contents 5](#_Toc24436808)

[Executive Summary 7](#_Toc24436809)

[Glossary 7](#_Toc24436810)

[1. Introduction 8](#_Toc24436811)

[2. PEPPOL registration 8](#_Toc24436812)

[3. Billing and credit note functionalities 8](#_Toc24436813)

[3.1. Document list sent 9](#_Toc24436814)

[3.2. Document list received 11](#_Toc24436815)

[4. Documents list received for Authorities 12](#_Toc24436816)

[5. Upgrade of web services for the information exchange on NoTI-ER platform 13](#_Toc24436817)

This Page Intentionally Left Blank

Executive Summary

This document aims to describe the design of the web interface in SATER eProcurement Platform carried out by Intercent-ER within EeISI project. The design mainly concerns about solutions must cover the implementation of eInvoicing systems compliant with the European standard (EN) on the SATER e-Procurement platform:

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 |
| **EDIFACT** | Electronic Data Interchange For Administration, Commerce and Transport |
| **EMSFEI** | European Multi-Stakeholder Forum on eInvoicing |
| **FatturaPA** | Public administration electronic invoice framework (FatturaPubblica Amministrazione) |
| **G2G** | Government to Government |
| **INEA** | Innovation and Networks Executive Agency |
| **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) |
| **UBL** | Universal Business Language |
| **UN/CEFACT** | United Nations Centre for Trade Facilitation and Electronic Business |
| **URI** | Uniform Resource Identifier |
| **URL** | Uniform Resource Location |
| **URN** | Uniform Resource Name |
| **XML** | Extensible Mark-up Language |

1. Introduction

The key objectives of the proposed solution are the implementation of eInvoicing systems compliant with the European standard (EN) on electronic invoicing and the integration of eDelivery services by Italian national and regional authorities. The purpose of this document is to describe the design of the “Gestione ordini e DDT Fornitori” functionalities for the Economic Operator, which are new features that enable a more exhaustive order’s life cycle.

In the following, the main activities to be carry out:

* Upgrade SATER e-Procurement platform;
* Billing functionalities:
  + Insertion of Invoice and Credit note
  + Outcome of Invoice and Credit note inserted
* Documents list received for Authorities associated to PEPPOL through the SATER e-Procurement platform.

The main activities to be performed in SATER Platform are described in the following sections.

1. PEPPOL registration

The Economic Operators registration for using the functionalities about the PEPPOL documents must not change on the original functional process. In the following, the documents that have been modified:

* **First registration document**

Economic Operator requests adherence to the service through this document that contains information on the Company and also data about the user himself. Economic Operator as user must necessarily be a subject endowed with the electronic signature of the company.

* **Registration document for users subsequent to the first**

This document, simpler than the first one, allows the registration of other users for the PEPPOL functionalities, after the Economic Operator has joined the platform as a Company.

* **Registration document for users without digital signature**

This document allows to use the PEPPOL functionalities for those user without a digital signature; however, the registration document must necessarily be signed by another user qualified to sign it through electronic signature.

1. Billing and credit note functionalities

SATER e-Procurement platform includes a group of features and the Economic operators will have “Ordini, DDT e Fatture” function available. Functions are provided as the following:

* Documents list sent;
* Document list received.
  1. Document list sent

This function displays all the documents sent (e.g Despatch Advice, Invoice and Credit Note) and make it possible to create other documents using the rules associated to Despatch Advice, Invoice and Credit Note documents.

SATER e-Procurement platform displays the information associated to order, dispatch advice or billing through the filter available and selected from the Economic Operator.

The filters are provided as the following:

* “Tipo documento”;
* “Registro di sistema”;
* “Titolo Documento”;
* “Ragione Sociale Destinatario”;
* “Identificativo Destinatario (CF / PIVA)”;
* “Numero Documento”;
* “Anno”.

SATER e-Procurement platform shows the columns selected as the following:

1. “Apri” (hand lens) allow to carry out the opening of a document;
2. “Stato” the status is upgraded from the SATER e-procurement platform and MDN (Message Disposition Notification) return receipts;
3. “Stato Funzionale” the functional status is based on the IMR (Invoice Message Response) received;
4. “Tipo Documento” the document type contains a value (i.e. Order or Invoice / Credit Note outcome);
5. “Titolo Documento”;
6. “Numero Documento”;
7. “Anno”;
8. “Registro di Sistema”;
9. “Data Invio”;
10. “Data Creazione”;
11. “Ragione Sociale Destinatario”;
12. “Identificativo Destinatario (CF / PIVA)”.

On the SATER e-Procurement platform, before the documents list, there is a menu that define the functions available as the following:

* “Nuovo DDT”;
* “Nuova Fattura”;
* “Nuova Nota di credito”;
* “Elimina”;
* “Copia”;
* “Stampa”;
* “Esporta”.

“**Nuovo DDT**” function creates a new dispatch advice document by opening a dialog box that allows to carry out this operation either completely independently or by using information present in other documents selected (i.e. order).

“**Nuova Fattura**” function creates a new billing document through an independently procedure using an order or dispatch advice document already present in the SATER e-procurement platform. There is a selection constraint of just one document (i.e. order or dispatch advice document) for a simple procedure.

“**Nuova Nota di Credito**” function creates a credit note document through an independently procedure using the information into the invoice document associated at the credit note or order document or dispatch advice document.

“**Elimina**” function allows to carry out the deletion of the selected document (through the “Selezione” column). This function is available just on the document in the “In Lavorazione” status, which has not been sent yet.

“**Copia**” function allows to carry out the insertion of a new document starting with a document already completed on the SATER e-procurement platform. It is possible to select a single document from the documents list and the function activated will be the one relative to the requested document. There are three functions that can be used (“Copia DDT”, “Copia Fattura” and “Copia Nota di Credito”) but only one choice is allowed through the button that activates the functionality requested.

Billing documents contain all the mandatory elements present on the XML schema plus another optional information that allows to carry out a correct interpretation of the billing document.

It’s possible to insert an invoice through three alternative procedures:

1. **In full autonomy**

The user inserts data and completes the electronic document with all the information that are necessary for a correct procedure.

1. **From one and only one order**

All useful information provided in the order are used in the invoice document while unnecessary information can be deleted or changed.

1. **From one and only one dispatch advice**

All useful information available in the dispatch advice are used in the invoice document while unnecessary information can be deleted or changed.

The step 2 and 3 above are mutually exclusive. Economic operator can choose only one of them in according to his needs.

For every invoice document there are more IMR (Invoice Message Response) notifications that must be managed. SATER e-Procurement platform contains a function that allows to display the IMR notifications associated to the invoice document. It’s possible to insert a credit note through four alternative procedures:

1. **In full autonomy**

The user inserts data and completes the electronic document with the all information that are necessary for a correct procedure.

1. **From one and only one order**

All useful information presents in the order are used in the invoice document while unnecessary information can be deleted or changed.

1. **From one and only one dispatch advice**

All useful information presents in the dispatch advice are used in the invoice document while unnecessary information can be deleted or changed.

1. **From one and only one invoice**

This is a step mostly used than others because the credit note is related to an invoice reversed for several reason (e.g. returning goods, data invoice error, etc.).

The step 2, 3 and 4 above are mutually exclusive. Economic operator can choose only one of them in according to his needs.

On the SATER e-Procurement platform are carried out all the “warning” checks for those documents inserted on the e-Delivery infrastructure (NoTI-ER) so that an Economic Operator can carry out any corrections on the document before send it. Any critical warning detected by NoTI-ER shall be communicated at the SATER e-Procurement platform and the user can carried out all corrections before sending off the document.

* 1. Document list received

This function displays all documents received (e.g. Order, MDN receipt and Invoice / Credit note outcome) and make it possible to create other documents using the Despatch Advice, Invoice and Credit Note rules. SATER e-Procurement platform displays the information associated to order, dispatch advice or billing through the filter available and selected from the Economic Operator.

The filters are provided as the following:

* “Tipo documento”;
* “Registro di sistema”;
* “Titolo Documento”;
* “Ragione Sociale Mittente”;
* “Identificativo Mittente (CF / PIVA)”;
* “Numero Documento”;
* “Anno”.

SATER e-Procurement platform shows the columns as the following:

1. “Icona documento” for download the document on the PDF and/or XML format;
2. “Stato” the status is upgraded from the SATER e-procurement platform and MDN return receipts;
3. “Tipo Documento” the document type contains a value (i.e. Order or Invoice / Credit Note outcome);
4. “Titolo Documento”;
5. “Numero Documento”;
6. “Anno”;
7. “Registro di Sistema”;
8. “Data Ricezione”;
9. “Ragione Sociale Mittente”;
10. “Identificativo Mittente (CF / PIVA)”.
11. Documents list received for Authorities

This function returns all invoices and credit notes inserted on the SATER e-Procurement platform. Economic perators can carry out a research in the platform using the filters provided. The filters made available from SATER e-Procurement platform are listed below:

* “Ragione Sociale O.E.”;
* “Codice Fiscale O.E.”;
* “Tipo documento”;
  + “DDT”;
  + “Fattura”;
  + “Nota di Credito”;
* “Anno”;
* “Numero Fattura / Nota di Credito”.

SATER e-Procurement platform displays the headers about invoice / credit notes data as following:

1. “Icona documento” for download the document on the PDF and/or XML format;
2. “Stato” the status is upgraded from the SATER e-procurement platform and MDN return receipts;
3. “Titolo Documento”;
4. “Numero Documento”;
5. “Anno”;
6. “Registro di Sistema”;
7. “Ragione Sociale O.E.”;
8. “Codice Fiscale O.E.”;
9. “Esito”.
10. Upgrade of web services for the information exchange on NoTI-ER platform

This function allows to carry out the information exchange for a correct operation of the system. The Web Services are chosen as infrastructures and these will be exposed from NoTI-ER platform.

SATER e-Procurement platform communicates with NoTI-ER through the web services defined as following:

1. **Invio Fattura / Nota di Credito**;
2. **Ricezione Esito Fattura / Nota di Credito**;
3. **Ricezione Fatture / Note di Credito** (just for the current Authorities on the SATER e-Procurement platform);
4. **Invio Esito Fatture / Note di Credito** (just for the current Authorities on the SATER e-Procurement platform).