

**ESPD**

**Interoperability and Diffusion**

**D5.3**

**Crossborder Interoperability Test Report**

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# Introduction

## Purpose

## Scope

## Document Overview

In accordance with the scope defined in previous paragraph, the document has been organized as follows:

* Chapter 5 – High Level Architecture;
* Chapter 6 – Tender procedure management

Each use case detailed is graphically represented with a sequence diagram providing an end-to-end view of the entire process. The main steps in the diagram are numbered and referenced in a table containing descriptions that help the reader in getting a better undertanding of each event, from a technical and / or business standpoint.

## Definitions, Acronyms and Abbreviations

|  |  |
| --- | --- |
| Acronym | Description |
| ANAC | *Autorità Nazionale Anti-Corruzione* (National Anti-Corruption Authority) |
| CA | Contracting Authority |
| CEF | Connecting Europe Facility |
| DGUE | Documento di Gara Unico Europeo |
| ESPD | European Single Procurement Document |
| e-Certis | Online mapping tool used to identify and compare certificates requested in public procurement procedures across the EU. Available at the following link: *https://ec.europa.eu/growth/tools-databases/ecertis/* |
| GURI | Official Journal of the Italian Republic (*Gazzetta Ufficiale della Repubblica Italiana*) |
| SIMOG | *Sistema Informativo Monitoraggio Gare* (Tender Monitoring Information System): online national system that allows Contracting Authorities (CAs) to request the Contract Reference Number (CIG) required for economic operators to pay the contribution to the Authority due for participation in public tenders |
| EO | *Economic Operator* |
| UC | Use Case |
| WS | Web Service |

Tab 1 | List of Definitions, Acronyms and Abbreviations

## References

|  |  |  |
| --- | --- | --- |
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# High Level Architecture

## System Landscape

The described use cases are based on the interation between the following systems:

* **SIMOG**: XXX;
* **e-procurement platform (Intercent-ER):** RUP actives the tender procedure to generate and manage the ESPD request. EO starts the ESPD response that will be saved on the platform;
* **e-Procurement platform (Consip):** XXX;
* **e-Procurement platform (UNIONCAMERE): XXX.**

The systems that are going upgraded in ESPD project are:

* **SIMOG**: new web services are implemented to integrate the SIMOG with the e-Procurement platforms to check the ESPD data and to notify incorrect data. The webservises will developed with REST protocol.
* **E-Procurement platform (Intercent-ER):** These implementations allow the RUP to customize the ESPD request and save it on the platform. EO starts the ESPD response and the e-procurement platform checks the correctness of the ESPD data allowing the ESPD signed.
* **e-Procurement platform (CONSIP)**: XXX.
* **e-Procurement platform (UNIONCAMERE)**: XXX.

# Crossborder Interoperability test inventory

The e-procurement platforms permits to generate and manage the ESPD for the tender procedures. These interoperability test are activated by the RUP of a Contracting Authority and Economic Operators following a specific operations defined on the e-procurement platform that describes the mandatory use of ESPD for the access to the eMarketplace.

The features permits to manage ESPD flow activities:

* Creation ESPD request and response on the INTERCENT-ER e-Proc platform and interoperability test with European ESPD validator service (<https://www.itb.ec.europa.eu/espd/upload>) ;
* Creation ESPD request and response on the CONSIP e-Proc platform and interoperability test with European ESPD validator service (<https://www.itb.ec.europa.eu/espd/upload>) ;

The following italian interoperability test can be identified:

* **CT\_01** – *ESPD request and response on the INTERCENT-ER e-Proc platform* *and interoperability test with European ESPD validator service:*

The RUP configures the request with the mandatory information that must be present on the European single procurement document. The ESPD Request contains arbitrary criteria, manually added by the ESPD request author (Contracting Authority) that customization own document. After data entry, the Intercent-ER e-procurement platform submits ESPD request at the checks by SIMOG using ANAC service. The ESPD request has been saved on the Intercent-ER e-procurement platform and than downloads from SATER the ESPD Request and validates the file with European ESPD validator.

To proceed to the next step, the Economic Operator research the tender on the Intercent-ER e-procurement platform and the EO starts the ESPD response. The EO signs the final version his ESPD response in xml and PDF format, save it on the Intercent-ER e-procurement platform, downloads from SATER the ESPD Response and validates the file with European ESPD validator.

* **CT\_02** – *ESPD request and response on the CONSIP e-Proc platform and interoperability test with European ESPD validator service:*

The RUP configures the request with the mandatory information that must be present on the European single procurement document. The ESPD Request contains arbitrary criteria, manually added by the ESPD request author (Contracting Authority) that customization own document. After data entry, the Consip e-procurement platform submits ESPD request at the checks by SIMOG using ANAC service. The ESPD request has been saved on the Consip e-procurement platform and than downloads from Consip e-procurement platform the ESPD Request and validates the file with European ESPD validator.

To proceed to the next step, the Economic Operator research the tender on the Consip e-procurement platform and the EO starts the ESPD response. The EO signs the final version his ESPD response in xml and PDF format, save it on the Consip e-procurement platform, downloads from Consip e-procurement platform the ESPD Response and validates the file with European ESPD validator.

## ESPD request and response on the Intercent-ER e-Procurement platform and interoperability test with European ESPD validator service

### Process steps

In the following tables, we provide more insights or clarifications on each process steps and for each process variant, so as to allow a better understanding of the overall Crossborder Interoperability Test from a functional and / or application perspective.

| **Id** | **Name** | **Role/System** | **Description** |
| --- | --- | --- | --- |
| **1** | *Enter general tender data* | RUP (Contracting Authority) | RUP log in on the e-Procurement platform and enters the tender general data |
| **2** | *Start ESPD request function* | RUP (Contracting Authority) | RUP starts the specific ESPD request function into the tender documentation section |
| **3** | *Show ESPD structure* | Intercent-ER e-Proc | The e-Procurement Platform shows the ESPD structure and provides automatic pre-filling of mandatory data |
| **4** | *Customize ESPD* | RUP (Contracting Authority) | RUP creates the own ESPD Request selecting the criteria of interesting and requires to save ESPD Request final version |
| **5** | *Check data* | Intercent-ER e-Proc | The e-Procurement Platform starts ANAC service to check the entered data |
| **6** | *Perform data check* | SIMOG | SIMOG checks the data completeness with respect current legislation |
| **6.1.1** | *Send Rejection Notification* | SIMOG | In case checks are not passed, the SIMOG system communicate to e-Procurement Platform negative verification outcome. The SIMOG sends the Rejection Notification to the e-Procurement Platform. |
| **6.1.2** | *Receive Rejection Notification* | Intercent-ER e-Proc | The e-Procurement Platform receives the Rejection Notification and sends an error message to RUP |
| **6.1.3** | *Receive error message* | RUP (Contracting Authority) | The RUP receives the error message “Incomplete required fields”. |
| **6.2** | *Save ESPD request* | Intercent-ER e-Proc | In case checks are passed by SIMOG, the e-Procurement Platform save the ESPD request, create the xml file and show the pdf file with the ESPD Request |
| **6.3** | *Download ESPD Request and validation with EU service* | RUP (Contracting Authority) | The RUP downloads the ESPD Request and go to <https://www.itb.ec.europa.eu/espd/upload> website, upload ESPD Request created on SATER and validates document |
| **7** | *Research tender* | EO | EO log in on the e-Procurement Platform  and research the tender to which EO wants to partecipate |
| **8** | *Start ESPD response compilation* | EO | EO actives the specific ESPD function into the tender documentation section |
| **9** | *Show ESPD request* | Intercent-ER e-Proc | The e-Procurement Platform shows the ESPD request |
| **10** | *Provide automatic pre-filling* | Intercent-ER e-Proc | The e-Procurement Platform search EO information and provides automatic pre-filling of know data |
| **11** | *Fill-in ESPD Response* | EO | EO insert request data in the ESPD Response and save the data |
| **12** | *Check ESPD data* | Intercent-ER e-Proc | The e-Procurement Platform check the inserted data |
| **12.1.1** | *Send error message* | Intercent-ER e-Proc | In case checks are not passed, the e-Procurement Platflorm send an error message to EO |
| **12.1.2** | *Receive error message* | EO | EO receives an error message |
| **12.2** | *Create ESPD response final versione* | Intercent-ER e-Proc | In case checks are passed, the e-Procurement Platform create the ESPD Response in xml and pdf format, and active download function |
| **12.3** | *Download ESPD response and validation with EU service* | EO | The EO downloads the ESPD Response and go to <https://www.itb.ec.europa.eu/espd/upload> website, upload ESPD Response created on SATER and validates document |
| **13** | *Sign ESPD Response* | EO | EO downloads pdf file, puts on the electronic digital signature on the document and upload on e-Procurment platform the signed file |
| **14** | *Save data* | Intercent-ER e-Proc | The e-Procurement Platform save the ESPD Response and notifies that operation is completed successfully |

## ESPD request and response on the CONSIP e-Proc platform

### Process steps

In the following tables, we provide more insights or clarifications on each process steps and for each process variant, so as to allow a better understanding of the overall Use Case, from a functional and / or application perspective.

| **Id** | **Name** | **Role/System** | **Description** |
| --- | --- | --- | --- |
| **1** | *Enter general tender data* | RUP (Contracting Authority) | RUP log in on the e-Procurement platform and enters the tender general data |
| **2** | *Start ESPD request function* | RUP (Contracting Authority) | RUP starts the specific ESPD request function into the tender documentation section |
| **3** | *Show ESPD structure* | Consip e-Proc | The e-Procurement Platform shows the ESPD structure and provides automatic pre-filling of mandatory data |
| **4** | *Customize ESPD* | RUP (Contracting Authority) | RUP creates the own ESPD Request selecting the criteria of interesting and requires to save ESPD Request final version |
| **5** | *Check data* | Consip e-Proc | The e-Procurement Platform starts ANAC service to check the entered data |
| **6** | *Perform data check* | SIMOG | SIMOG checks the data completeness with respect current legislation |
| **6.1.1** | *Send Rejection Notification* | SIMOG | In case checks are not passed, the SIMOG system communicate to e-Procurement Platform negative verification outcome. The SIMOG sends the Rejection Notification to the e-Procurement Platform. |
| **6.1.2** | *Receive Rejection Notification* | Consip e-Proc | The e-Procurement Platform receives the Rejection Notification and sends an error message to RUP |
| **6.1.3** | *Receive error message* | RUP (Contracting Authority) | The RUP receives the error message “Incomplete required fields”. |
| **6.2** | *Save ESPD request* | Consip e-Proc | In case checks are passed by SIMOG, the e-Procurement Platform save the ESPD request, create the xml file and show the pdf file with the ESPD Request |
| **6.3** | *Download ESPD Request and validation with EU service* | RUP (Contracting Authority) | The RUP downloads the ESPD Request and go to <https://www.itb.ec.europa.eu/espd/upload> website, upload ESPD Request created on Consp e-Procurement Platform and validates document |
| **7** | *Research tender* | EO | EO log in on the e-Procurement Platform  and research the tender to which EO wants to partecipate |
| **8** | *Start ESPD response compilation* | EO | EO actives the specific ESPD function into the tender documentation section |
| **9** | *Show ESPD request* | Consip e-Proc | The e-Procurement Platform shows the ESPD request |
| **10** | *Provide automatic pre-filling* | Consip e-Proc | The e-Procurement Platform search EO information and provides automatic pre-filling of know data |
| **11** | *Fill-in ESPD Response* | EO | EO inserts request data in the ESPD Response  and save the data |
| **12** | *Check ESPD data* | Consip e-Proc | The e-Procurement Platform check the inserted data |
| **12.1.1** | *Send error message* | Consip e-Proc | In case checks are not passed, the e-Procurement Platflorm send an error message to EO |
| **12.1.2** | *Receive error message* | EO | EO receives an error message |
| **12.2** | *Create ESPD response final versione* | Consip e-Proc | In case checks are passed, the e-Procurement Platform create the ESPD Response in xml and pdf format, and active download function |
| **12.3** | *Download ESPD response and validation with EU service* | EO | The EO downloads the ESPD Response and go to <https://www.itb.ec.europa.eu/espd/upload> website, upload ESPD Response created on Consip e-Procurement Platform and validates document |
| **13** | *Sign ESPD Response* | EO | EO downloads pdf file, puts on the electronic digital signature on the document and upload on e-Procurment platform the signed file |
| **14** | *Save data* | Consip e-Proc | The e-Procurement Platform save the ESPD Response and notifies that operation is completed successfully |

# Test execution

## Test planning

## Test environments

## Results and findings

# Test scenarios and results