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LEILA – towards a multilingual European platform for judicial Auctions

Action Plan for LEILA EU-wide Adoption Deliverable D4.2

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List of Abbreviations

Acronym	Explanation
API	Application Programming Interface
e-CODEX	e-Justice Communication via Online Data Exchange – a computerised system for the cross-border electronic exchange of data in the area of judicial cooperation in civil and criminal matters as per Regulation (EU) 2022/850 of the European Parliament and of the Council of 30 May 2022 on a computerised system for the cross-border electronic exchange of data in the area of judicial cooperation in civil and criminal matters (e-CODEX system), and amending Regulation (EU) 2018/1726
EU	European Union
eu-LISA	The European Union Agency for the Operational Management of Large-Scale IT Systems in the Area of Freedom, Security and Justice
JSON	JavaScript Object Notation
LEILA	‘LEILA - towards a muLtilingual European platform for judcial Auctions’ Project, Grant Agreement No 101007385
MS	Member State
SSL	Secure Sockets Layer
VM	Virtual Machine
WSDL	Web Services Description Language
XSD	XML Schema Definition



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Executive Summary

Present document, titled ‘Action Plan for LEILA EU-wide Adoption’, encompasses a comprehensive toolkit for the adoption of the European Platform for Judicial Auctions (‘the Platform’) and its related tools, developed by the ‘LEILA - towards a muLtilingual European platform for judlciaL Auctions’ (LEILA) Project, at a Member State level. The toolkit includes guidelines and a methodical approach for stakeholder engagement and platform adoption, and is designed to assist Member States in successfully adopting the Platform, providing a clear step-by-step methodology.

The European Platform for Judicial Auctions, presented herein, aims to enhance the judicial auction system by increasing transparency, fairness, and efficiency, making the auction process more accessible and competitive while mitigating fraud risks. Therefore, the document also addresses the future development of the Platform, suggesting a timeline and detailed plan for its EU-wide adoption and integration with the EU e-Justice Portal.

Adopting such a platform leads to significant challenges at national level, necessitating the coordination of various stakeholders, including national Ministries of Justice, competent authorities and legal professionals’ professional bodies. Therefore, this toolkit serves as a detailed roadmap to facilitate successful and efficient integration of the Platform into existing judicial systems across the European Union, leveraging stakeholder engagement and structured adoption methodology.



1. Introduction

Present Deliverable D4.2 ‘Action Plan for LEILA EU-wide Adoption’ aims to deliver a comprehensive toolkit for the adoption of the European Platform for Judicial Auctions (‘the Platform’) and its related tools, developed by the ‘LEILA - towards a muLtilingual European platform for judLcial Auctions’ (LEILA) Project, at a Member State level.

The European Platform for Judicial Auctions (in short, the Platform) aims to

- tackle inefficiencies caused by the fragmentation and substantial variation and complexity of rules governing judicial auctions across EU Member States, which entails a negative impact on competition, sale value and the time needed to conclude a sale; and to
- provide solutions for Member States without government-managed portals;

thus enhancing the judicial auction system by increasing transparency, fairness, and efficiency, making the auction process more accessible and competitive while mitigating fraud risks.

To support this process, the LEILA Project has delivered a number of tools that are to be further presented in this document with regards to their relevance and importance to the various scenarios a new-to-the-Platform Member State, a competent body and/or a national auction platform’s team could face when considering to join the European Platform for Judicial Auctions. The document also presents the various steps to be undertaken by these organizations and teams when implementing a national integration project upon a positive decision to join.

In light of the above, the European Platform for Judicial Auctions’ infrastructure consists of:

- LEILA Data Model, designed specifically for the exchange of judicial auction information among competent bodies;
- Web platform, being the publicly accessible interface of the European Platform for Judicial Auctions;
- LEILA Central Portal, being the core of the European Platform for Judicial Auctions, and related installation and configuration requirements to secure integration with Member States’ national platforms on judicial auctions;



- Mini-LEILA Local Portal, a standalone portal solution developed as a complementary tool to secure access to the European Platform on Judicial Auctions for Member States without a (centralized) national platform for judicial auctions;
- LEILA Testing System, a standalone lightweight solution without external dependencies developed to enable automated testing from a centralized perspective that allows competent bodies to send and monitor customizable delivery messages autonomously, without needing an additional ‘testing partner’.

Further, the European Platform for Judicial Auctions relies on the e-Justice Communication via Online Data Exchange (e-CODEX) exchange infrastructure¹ and related European Commission’s e-Delivery services, each hosted by the respective party in the exchange.

Adopting such a platform also leads to significant challenges at national level, necessitating the coordination of various stakeholders, including national competent bodies, domain-related authorities and legal professionals’ professional bodies. Therefore, this toolkit also aims to serve as a step-by-step guide towards facilitating successful and efficient integration of the European Platform for Judicial Auctions into existing judicial systems across the European Union, leveraging stakeholder engagement and structured adoption methodology.

¹ e-CODEX is a computerised system for the cross-border electronic exchange of data in the area of judicial cooperation in civil and criminal matters (e-CODEX system), established under Regulation (EU) 2022/850. e-CODEX provides an interoperable solution for the justice sector to connect the IT systems of the competent national authorities, such as the judiciary, or other organisations. The e-CODEX system is to be viewed as the preferred solution for an interoperable, secure and decentralised communication network between national IT systems in the area of judicial cooperation in civil and criminal matters. Further information on the technical aspects of the e-CODEX system is available here: <https://www.e-codex.eu/tech>



2. Connecting Your National Platform to the EU LEILA Infrastructure

2.1. Engaging National Stakeholders

2.1.1. Key Stakeholders and Influencers Facilitating Adoption of the European Platform for Judicial Auctions on Member State level

The adoption of the European Platform for Judicial Auctions by a new Member State involves the collaboration of several stakeholder groups. Identifying and engaging with the relevant responsible entities is a critical step in ensuring a smooth and successful implementation of the Platform.

The engagement of key stakeholders in the implementation of the European Platform for Judicial Auctions must be executed in a phased approach, commencing with those who are instrumental in its operational and maintenance aspects, and subsequently progressing to entities responsible for its technical and legal management within each Member State.

Such a phased approach necessitates beginning with experts who have already contributed significantly through their participation in the workshops conducted during the LEILA Project's timeframe (first step). Following this, the involvement must be expanded to encompass the providers of the existing national platforms across the Member States, particularly those who are not yet partners in the project (second step). Additionally, the judicial authorities in various countries, tasked with overseeing auction procedures, must be engaged (third step). Lastly, the Ministries of Justice and other governmental bodies overseeing national e-auction systems will need to be incorporated into this process (fourth step).

In this section, we will outline the key stakeholder groups that should be involved in the adoption process and discuss their roles and responsibilities.



Judicial Auction and e-Justice Experts

The successful dissemination of information about and follow-up adoption of the European Platform for Judicial Auctions critically depend on the early and active involvement of judicial auction experts and e-justice specialists. These professionals bring a wealth of knowledge and experience in the domain of judicial sales and digital justice solutions, respectively. By engaging these experts, the LEILA Project can leverage their networks and influence to facilitate wider acceptance and adoption of the tools developed, and the European Platform for Judicial Auctions in particular. Their unique position within their respective countries enables them to act as ambassadors for the Platform, effectively communicating its benefits and advocating its adoption to other key stakeholders. This grassroots approach to raising awareness, driven by the respected voices in the field, is instrumental in creating a ripple effect of support and acceptance, further bridging the gap between traditional auction practices and modern digital solutions. Their endorsement and active participation in the LEILA Project could significantly aid in building trust and credibility among stakeholders across the EU, ensuring a robust and cooperative environment for a potential expansion of the Platform.

National Judicial Auction Platforms

In some EU Member States, there are already existing national platforms for judicial auctions. In this case, it is important to involve these platforms in the LEILA Project to ensure that the information is centralized and harmonized across all Member States. The responsible parties therein would be the national platform providers, such as Ministries of Justice, professional associations or private companies delivering auction solutions on behalf of the respective government bodies. These national platform providers can work with the LEILA Consortium (via the Ministry of Justice (Italy), being the European Platform for Judicial Auctions' provider) to ensure that the information from their platforms is integrated with the European Platform for Judicial Auctions in a seamless and efficient manner. It is important to ensure that the national platform providers see the benefits of this integration, such as increased visibility for their auctions, easier access to information for potential bidders from other Member States, etc.

Enforcement Agents

Judicial auctions are carried out by specialized 'auctioneers' in each State: bailiffs, notaries, judges, employees of government agencies or of bar associations, professionals delegated by judges. Therefore, enforcement agents play a pivotal role in the successful



adoption and implementation of the European Platform for Judicial Auctions within new EU Member States. These agents, often judicial officers or other authorized personnel, are directly involved in the administration and execution of judicial auctions. Their expertise and operational capacity make them indispensable in integrating the LEILA Project's solutions into the existing judicial auction framework of a particular state.

Further, they are the ones responsible for uploading the auction information on the European Judicial Auction Platform, which would require adequate training to ensure that the data they provide is accurate and complete. They should also be aware of the regulations and guidelines for the platform, such as the frequency and format of the data to be uploaded, and how to communicate with the relevant authorities in case of issues with on the European Judicial Auction Platform.

Ministries of Justice and Other Governmental Bodies

The Ministries of Justice and/or other governmental bodies with competencies in the judicial auction domain play a key role in the adoption of the European Platform for Judicial Auctions, as they are responsible for overseeing the applicable legislation and organizational structure in each Member State. In particular, they are responsible for ensuring that legal professionals are aware of and trained to use the on the European Judicial Auction Platform to disseminate auction information to the European public.

These governmental bodies should also ensure that the European Judicial Auction Platform complies with national and EU regulations regarding data protection and privacy, among other applicable legal requirements posing specific restrictions including in a digital environment.

Finally, it is these governmental bodies' responsibility to coordinate with other relevant agencies on national level to ensure a smooth integration of the European Judicial Auction Platform into the existing auction infrastructure.

2.1.2. Experts Involvement

To ensure the successful adoption and integration of the European Platform for Judicial Auctions on national level, it is essential to involve experts with relevant skills and expertise. In particular, such a national project will require experts in project management, technical experts familiar with e-CODEX, and experts with specific expertise in the related legal and judicial matters. Each of these areas is critical to ensuring that the European Platform for Judicial Auctions functions effectively meets the needs of its users from a



national perspective. This section will provide an overview of the specific skills and expertise required for each area and the roles that these experts will play in such a national project.

Expertise in Project Management

The project management expert (one or more) involved should have extensive experience in managing large-scale technology projects, preferably in the legal or justice sectors. They should be familiar with project management methodologies such as Agile, Scrum or Prince2, and have experience with project planning, monitoring and evaluation, risk management, and stakeholder management.

As the national project on the adoption of the LEILA Project framework for integration with the European Platform for Judicial Auctions is expected to last for six months, and the project management expert is expected to be involved on a regular basis (approx. five days per month), the ideal candidate should be available for the entire duration of the project.

The project management expert should also have excellent communication and leadership skills to effectively manage the project team and ensure the timely delivery of project milestones.

Finally, the ability to work collaboratively with experts from different domains and cultures is crucial.

e-CODEX Deployment and Management

National projects on the adoption of the LEILA Project framework for integration with the European Platform for Judicial Auctions are to rely on the e-CODEX exchange infrastructure (from a technical perspective), thus it is necessary to have at least one technical expert with relevant expertise. This expert (one or more) should be knowledgeable in e-CODEX messaging formats, interfaces, and protocols, and be able to provide technical support to integrate the national platform with the e-CODEX exchange infrastructure. Their responsibilities could include, among others, analysing the national platform's technical requirements and assessing the compatibility with the e-CODEX exchange infrastructure; coordinating with the e-CODEX support team, and ensuring the national platform's compliance with e-CODEX standards and protocols. The experts' level of involvement and the duration of their engagement should be determined by the extent of e-CODEX exchange infrastructure and their experience in the field.



Expertise in Legal and Judicial Matters in Judicial Auctions

The national project on the adoption of the LEILA Project framework for integration with the European Platform for Judicial Auctions will inevitably lead to discussing specific legal and judicial matters that require the involvement of an expert in the field. This expert (one or more) should have a legal background and knowledge of the national and European legal framework in the judicial auction domain. This expert will be responsible for ensuring compliance with national and EU regulations and updating various contractual documents, including the applicable terms and conditions of use, privacy policy, etc.

This expert is also to be responsible for identifying any legal risks and proposing appropriate solutions to mitigate them. Their expertise will be crucial in ensuring the success and legal compliance of the national project.

This expert's involvement in the national project is estimated to be approx. five days per month, for a period of six months.

2.2. Implementing Your National Project

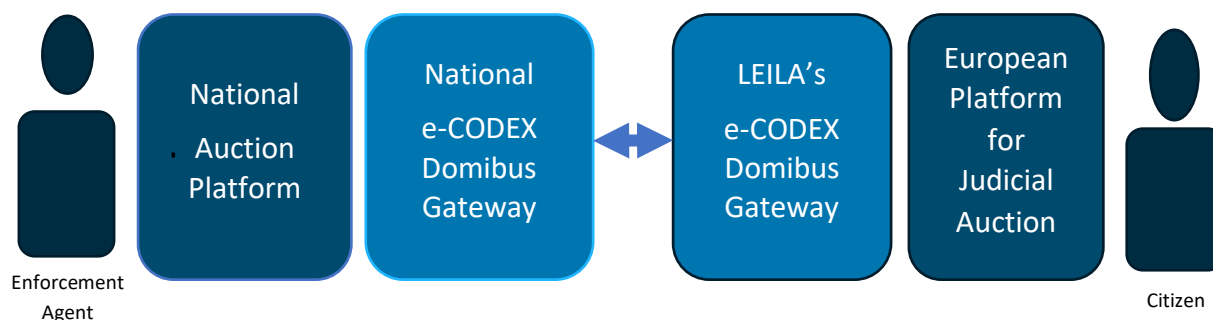


Figure 1 Overall architecture of the information flow

2.2.1. Project Presentation to Stakeholders and Experts

To ensure the success of the national project on the adoption of the LEILA Project framework for integration with the European Platform for Judicial Auctions, it is important to present it to all stakeholders involved. The project presentation should provide a



comprehensive overview of the project goals, objectives, timeline, and scope. It should also highlight the benefits of the project and how it aligns with the stakeholders' interests and priorities.

The project presentation should be tailored to the specific stakeholders and their roles in the project. For example, a Ministry of Justice (being the competent authority on policy making in the judicial auction domain on national level) may be more interested in the legal aspects of the project, while the technical experts working for the project implementing body may be more focused on the technical details.

The project presentation should be clear and concise, using language that is easily understandable by all stakeholders. Visual aids, such as diagrams or charts, can also be used to help convey complex information.

Overall, the project presentation is a key component in ensuring stakeholder buy-in and support for the integration project. To assist with this initial presentation, the LEILA Consortium has prepared the following tools:

- A presentation template outlining the key components of the European Platform for Judicial Auctions and its benefits to different stakeholder groups;
- A factsheet summarizing information on the e-CODEX infrastructure and its role for the proper functioning of the European Platform for Judicial Auctions;
- A checklist of legal and organizational requirements to be considered during the implementation phase of a national project on the adoption of the LEILA Project framework for integration with the European Platform for Judicial Auctions;
- A sample communication plan to facilitate stakeholder engagement and information sharing.²

These tools can be customized and tailored to the specific needs and context of the respective national project, providing a helpful starting point for the initial presentation to key stakeholders.

2.2.2. Legal Prerequisites Analysis

Before joining the European Platform for Judicial Auctions, Member States must ensure that their participation is legally feasible. The main legal prerequisite to be analysed is

² All documents can be found at <https://eujudicialauctions.eu/a/how-to-deploy-the-platform>



whether it is lawful for a Member State to connect to a European platform that provides information on auctions taking place in other Member States.

The legal analysis should focus on several aspects, including data protection and privacy laws, intellectual property rights, and any other relevant national laws that could directly or indirectly impact the implementation of the national project. Member States must verify that their national legal frameworks are compatible with the concept for a European Platform for Judicial Auctions and that the latter complies with the respective legal requirements on national level in this regard.

To help with this task, the LEILA Consortium has prepared the following documents:

- **European Platform for Judicial Auctions' Architecture (High Level Design)**³: This document provides a visual representation of how the European Platform for Judicial Auctions works, what are the different components therein and how they interact with each other.
- **European Platform for Judicial Auctions' User Manual**⁴: This document provides instructions on how to use the European Platform for Judicial Auctions, including how to search for auctions, create alerts, etc.

These documents should help Member States' competent bodies in conducting a thorough legal analysis and ensure that the integration of their national platform(s) with the European Platform for Judicial Auctions is legally feasible.

In addition, Member States must ensure that the integration of their national platform(s) with the European Platform for Judicial Auctions does not violate any contractual obligations they may have with auction platforms. This can be achieved through a thorough review of any existing agreements with auction platforms to ensure that there are no clauses prohibiting participation in other platforms.

Once the legal feasibility of participation has been confirmed, Member States can move on to the technical and practical aspects of connecting to the European Platform for Judicial Auctions. By ensuring that the legal prerequisites are met, Member States can confidently participate in the Platform and benefit from the information it provides on auctions taking place across European Union.

³ Available at <https://ejudicialauctions.eu/a/how-to-deploy-the-platform>

⁴ Available at <https://ejudicialauctions.eu/a/how-to-use-the-platform>



2.2.3. Assessing Technical Compatibility with Existing Systems

There are three possible scenarios for the adoption of the European Platform for Judicial Auctions.

- The first scenario is when a Member State already has a national platform providing information for judicial auctions. In this case, the MS project team should assess the compatibility of the national platform with the technical and operational requirements of the European Platform for Judicial Auctions, and initiate the national project on integrating with it, in case of a positive assessment.
- If the Member State does not have a national platform on judicial auctions, the MS project team could make use of the standalone portal solution called Mini-LEILA that is developed under the LEILA Project as the latter can be installed and configured to meet the needs of that state, including for integration purposes with the European Platform for Judicial Auctions.
- If the Member State has several platforms, the Mini-LEILA platform mentioned above is complemented by an application programming interface (API) that enables all auction platforms to connect to it and participate in European Platform for Judicial Auctions.

In preparing for the integration with the European Platform for Judicial Auctions, it is crucial for Member States to ensure their data is correctly formatted and comprehensive. The primary focus should be on aligning existing judicial auction data with the European Platform for Judicial Auctions' standards. This involves confirming that data fields such as asset types, auction details, participant information, etc. are in a format compatible with the one used by the European Platform for Judicial Auctions, typically XML or JSON. Additionally, it is important to verify that the data adheres to EU-wide legal and security standards, including General Data Protection Regulation⁵ compliance for personal data protection purposes. Member States should conduct an audit of their existing data repositories to identify any gaps or inconsistencies in data formats, structures, or content. For detailed guidance on these data specifications and related integration requirements, Member States should refer to the LEILA Project's Deliverable D2.4 'Final Functional and Technical Requirements'⁶. Collaborative workshops or consultations with the LEILA

⁵ Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation), <https://eur-lex.europa.eu/eli/reg/2016/679/oj>

⁶ The document could be found at <https://eujudicialauctions.eu/a/deliverables>



Project Technical Team can be beneficial for understanding specific integration requirements and tailoring the data preparation process accordingly.⁷

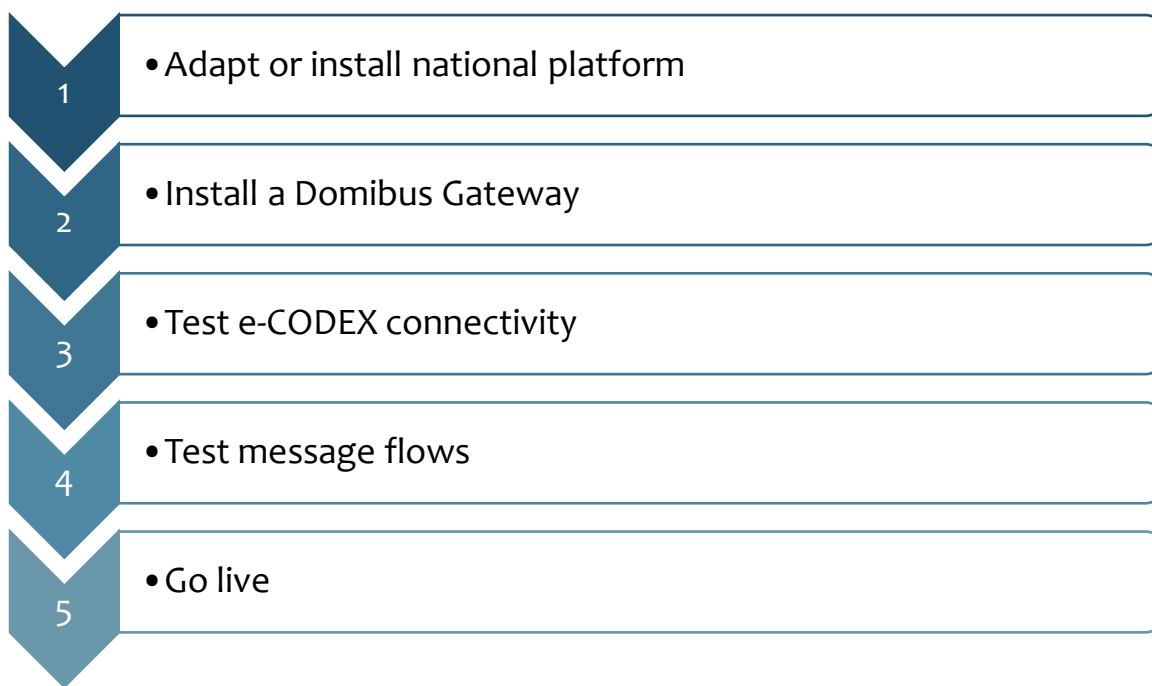


Figure 2 Steps to be implemented towards going live

The following paragraphs will describe the technical steps involved in the three scenarios presented above and the necessary documentation and information required to complete them.

2.2.4. Integration Scenario for Member States with One National Platform on Judicial Auctions

Available Documentation

- **European Platform for Judicial Auctions' Architecture (High Level Design)**⁸: This document provides essential technical information for Member States to assist in

⁷ Such could be arranged upon request by getting in contact with the LEILA Project Technical Team <https://eujudicialauctions.eu/signal>

⁸ Available at <https://eujudicialauctions.eu/a/how-to-deploy-the-platform>



installing the tools developed under the LEILA Project for integration with the European Platform for Judicial Auctions. Key aspects include:

- LEILA Data Model & integration requirements
 - LEILA Central Portal Architecture
 - Mini-LEILA Local Portal (architecture, REST APIs)
 - Domibus Gateway (communication standards and protocols involved in sending auction data to the Platform).
- **European Platform for Judicial Auctions’ Member State Integration User Guide⁹:** This document describes the installation and configuration instruction to integrate the Member State’s national platform with the LEILA Central Portal to send auction data using the Domibus Gateway.

Adapting the National Platform

The national platform is to be connected to the European Platform for Judicial Auctions via the Domibus Gateway (see below for further details). If the national platform uses other data structures or XML schemas than the ones developed under the LEILA Project, a mapping exercise must be performed.

European Platform for Judicial Auctions’ procedures designed under the LEILA Project are supported by common electronic business documents in XML format (also called XSDs or XML schemas). The schemas represent the content as agreed upon in the LEILA Project. The deployment of these schemas into automated proceeding for purposes of domestic solutions requires mapping between schemas on the European Platform for Judicial Auctions’ layer and the schemas used in the domestic solutions.

Installing Domibus Gateway

The first step to become part of the European Platform for Judicial Auctions’ environment is to request access to it and start testing.

⁹ Available at <https://ejudicialauctions.eu/a/how-to-deploy-the-platform>



To be able to start testing, the Domibus Gateway¹⁰ must be installed as a minimum. For Domibus Gateway setup, the main steps include:

- Downloading the latest Domibus Gateway version (via <https://ec.europa.eu/digital-building-blocks>)
- Following Domibus Gateway quickstart guide (available at <https://ec.europa.eu/digital-building-blocks>)
- Uploading Pmode Configuration prepared by the LEILA Consortium
- Adding Truststore and keystore
- Configuring Webservice plugin
- Setting up SSL (Tomcat configuration)
- Implementing the LEILA Application
- Schedule a job to communicate with Domibus webservice plugin.

European Platform for Judicial Auctions' Member State Integration User Guide

The 'Member State Integration User Guide' document offers detailed instructions for integrating a Member State's existing national platform on judicial auctions with the LEILA Central Portal using Domibus Gateway. Key steps in this process include:

- **Installation and configuration:** The guide outlines how to install and configure the necessary components for integration, specifically focusing on setting up the Domibus Gateway.
- **System prerequisites:**
 - **Domibus 5.0.X Tomcat Version:** The specific version of Domibus required.
 - **MySQL 8.0:** The database system to be used.
 - **Linux Operating System:** Recommended versions include RHEL 7.5+, Rocky Linux, or Ubuntu 20.X.X LTS+.
 - **Java Development Kit:** Version 8.0 is required.

¹⁰ For information on the place of the Domibus Gateway in the e-CODEX exchange infrastructure, see <https://www.e-codex.eu/tech>. The latest version of the Domibus Gateway is available at <https://ec.europa.eu/digital-building-blocks/wikis/display/DIGITAL/Domibus>.



- Internet Access: Necessary for downloading software packages.
- Environment configuration: Configuring the environment for secure communication between the Member State' national platform and the LEILA Central Portal.
- Domibus Gateway setup: This gateway is vital for managing secure data transfer between the LEILA Central Portal and the Member State's national platform. Detailed steps for its installation and configuration are provided, ensuring secure and efficient communication.

This guide is essential for Member States with their existing national platforms on judicial auctions, providing a clear and comprehensive pathway to integrate with the European Platform for Judicial Auctions and enhance the visibility and accessibility of their auctions on a European scale.

2.2.5. Integration Scenario for Member States Without a National Platform for Judicial Auctions

Available Documentation

- **European Platform for Judicial Auctions' Architecture (High Level Design)¹¹**: This document outlines the standalone portal solution developed under the LEILA Project for Member States without a central platform on judicial auctions, detailing how it integrates with the LEILA Central Portal (being the core of the European Platform for Judicial Auctions) and manages auctions.
- **Mini-LEILA Installation Guide¹²**: This document is aimed to support the technical experts in a MS project team and constitutes the installation manual of the standalone portal solution developed under the LEILA Project, known as Mini-LEILA, for the purposes of its correct configuration. Mini-LEILA is the complementary tool developed under the LEILA Project to secure access to the

¹¹ Available at <https://ejudicialauctions.eu/a/how-to-deploy-the-platform>

¹² Available at <https://ejudicialauctions.eu/a/how-to-deploy-the-platform>



European Platform on Judicial Auctions for Member States without a national platform for judicial auctions.

Description

To install the generic platform – Mini-LEILA, provided by the LEILA Consortium, the Member State competent body should follow a set of steps.

Firstly, the Member State competent body should ensure that the resources allocated to the national project meet the necessary technical requirements of the European Platform for Judicial Auctions such as server space, adequate bandwidth, and system compatibility.

Secondly, the Member State competent body should assign a project team responsible for, among other tasks, the installation process and provide them with the necessary information and documentation.

The ‘Mini-LEILA Installation Guide’ document serves as an essential manual for the installation and configuration of the Mini-LEILA standalone portal solution and is specifically designed for technical experts. This comprehensive guide details the process for adding, modifying, or removing auctions within various sections of the European Platform for Judicial Auctions. It ensures that each auction is displayed with all necessary configurations and information.

A crucial feature of the Mini-LEILA standalone portal solution is its ability to periodically send auction data to the LEILA Central Portal, facilitated by scheduled sending mechanisms. In this regard, the installation guide highlights the use of the Domibus Gateway, which provides a secure and asynchronous communication channel with the European Platform for Judicial Auctions.

The installation guide is an invaluable tool for Member States without a national platform for judicial auctions and offers a clear pathway towards integrating MS auction data into the broader LEILA Project framework (and by extension – the European Platform for Judicial Auctions), thereby enhancing their judicial auction processes and visibility within the EU context.

2.2.6. Integration Scenario for Member States with Multiple Auction Platforms



Available Documentation

- **European Platform for Judicial Auctions’ Architecture (High Level Design)**¹³: This document outlines the standalone portal solution developed under the LEILA Project for Member States without a central platform on judicial auctions, detailing how it integrates with the LEILA Central Portal (being the core of the European Platform for Judicial Auctions) and manages auctions.
- **European Platform for Judicial Auctions’ REST API Integration Guide**¹⁴: This document describes a REST Service that allows for the creation, modification, elimination, detailing and auction listing operations.
- **Mini-LEILA Installation Guide**¹⁵: This document is aimed to support the technical experts in a MS project team and constitutes the installation manual of the standalone portal solution developed under the LEILA Project, known as Mini-LEILA, for the purposes of its correct configuration. Mini-LEILA is the complementary tool developed under the LEILA Project to secure access to the European Platform on Judicial Auctions for Member States without a national platform for judicial auctions.

Description

In addition to the ‘Mini-LEILA Installation Guide’ document, the ‘REST API Integration Guide’ offers a detailed and user-friendly pathway for Member States with multiple auction platforms to connect each auction platform with Mini-LEILA standalone portal solution via a dedicated API. The guide elaborates on a REST Service that facilitates the creation, modification, elimination, detailing, and auction listing operations. This service is protected via OAuth 2 authentication, ensuring secure and controlled access.

Key functionalities include the ability to upload auctions through JSON files, meeting specific data criteria such as dates, sale currency, sale modality, asset types, and geographic coordinates.

The guide also provides clear instructions for using POSTMAN for API testing, along with detailed paths and methods for creating, updating, deleting, and retrieving auction details. It emphasizes on the conditions for successful auction creation, such as matching

¹³ Available at <https://ejudicialauctions.eu/a/how-to-deploy-the-platform>

¹⁴ Available at <https://ejudicialauctions.eu/a/how-to-deploy-the-platform>

¹⁵ Available at <https://ejudicialauctions.eu/a/how-to-deploy-the-platform>



country codes and asset types, and provides comprehensive examples of JSON arrays for various operations.

This guide is an invaluable tool for Member States seeking to integrate their auction data with the Mini-LEILA standalone portal solution (and by extension – to the European Platform for Judicial Auctions). It ensures that even in the absence of a centralized national platform, Member States can effectively participate in the EU-wide judicial auction network, enhancing visibility and accessibility of their auctions through the European Platform for Judicial Auctions.

2.2.7. Testing

Preparation Steps

From a technical point of view, the following tasks must be completed before starting the testing phase:

- Getting an official certificate and forwarding it to the Leila technical team
- Opening the firewall for the LEILA Project Technical Team to allow connectivity
- Installing the database and executing the initial database scripts
 - Such database scripts are available for both Oracle and MySQL.
- Installing the Domibus Gateway
- Implementing the national part (Data mapping tool, developing the national backend interface).

Once the Mini-LEILA standalone portal is installed, the Member State competent body should perform adequate testing to ensure its functionality and compatibility with existing systems. To help with this task, the LEILA Consortium have delivered a dedicated document, namely the ‘Testing System Guide’¹⁶.

The testing process involves a series of structured tests to ensure the effective communication and integration of the national system ¹⁷within the European Platform for Judicial Auctions’ environment. The testing includes both Outgoing Connectivity Tests and

¹⁶ Available at <https://eujudicialauctions.eu/a/how-to-deploy-the-platform>

¹⁷ The term "National System" in the context of the LEILA project encompasses a variety of scenarios across different countries. It includes countries that do not have any dedicated auction platform, those that have a single platform, and those that operate multiple platforms.



Incoming Connectivity Tests, which assess the ability of the national system to send and receive data to and from the LEILA Central Portal. This is crucial for verifying the technical aspects of the e-Delivery components and their communication capabilities.

In order to verify a successful setup of a Domibus Gateway, the following can be checked:

- No errors in the Domibus Gateway log (domibus.log)
- The endpoint URL of the Domibus Gateway is accessible
- The Web Service of the national system is accessible
- The Domibus Gateway is accessible
- The database of the Domibus Gateway is up and running, and all the database tables of the Domibus Gateway are available.

If a Member State does not have a national auction platform in place for generating test messages but would like to start the connectivity test already, test forms are available.

To identify a successful message exchange, it is important to check if all technical tokens (see below) have been received or sent. For a successful message exchange, the following technical tokens should be seen for every message in the database in exactly the same order as below:

- SUBMISSION_ACCEPTANCE
- RELAY_MD_ACCEPTANCE
- DELIVERY
- RETRIEVAL (OPTIONAL).

An unsuccessful message can occur for several reasons:

- The Domibus Gateway had an internal problem on processing the message. In order to verify this, the e-CODEX logs and the exception traces should be verified to find the corresponding reasons.
- The backend of the national system should not process the message. For this reason, the application of the national system should be checked.
- The Domibus Gateway sent a NON-DELIVERY evidence, indicating that something with the XML content is not correct or that the European Platform for Judicial Auctions has some internal problems. For this, the LEILA Project Technical Team should be contacted to find out the reason.



- The Domibus Gateway sent a RELAY_REMMD_REJECTION evidence, indicating some internal problems at the national system. For this, the LEILA Project Technical Team should be contacted to find out the reason.

Additionally, a dedicated Ingestion Test is conducted to confirm that auction messages from the national system are correctly delivered and stored within European Platform for Judicial Auctions' environment.

LEILA Testing System

The European Platform for Judicial Auctions, developed by the LEILA Project, relies on the European Commission's e-Delivery services (Domibus Gateway) for its message exchange functionality. The exchange of messages between various entities is dependent on the Domibus messaging platform instances, each hosted by the respective party. These instances have the capability for logging activities, which are by default stored locally. This local storage means that testing and troubleshooting are confined to local operations, limiting visibility into the broader European Platform for Judicial Auctions' environment, especially in the context of cross-border exchanges.

The LEILA Testing System (LTS) is an independent platform developed to enable automated testing from a centralized perspective. Its primary objective is to allow competent bodies to send and monitor customizable e-Delivery messages autonomously, without needing an additional 'testing partner'. This approach is similar to the e-CODEX Central Testing Platform (CTP)¹⁸. However, unlike other e-CODEX implementations that include additional components like the e-CODEX Connector, the LTS is designed as a standalone, lightweight solution without external dependencies.

Two scenarios have been developed to evaluate the connection state between Domibus Gateway and National Domibus Gateways. The first (Outgoing Connectivity Test) evaluates the ability of the Domibus Gateway to communicate with the national Local Domibus Gateways and troubleshoot any issues that may arise. The second (Incoming Connectivity Test) aims to identify and address any issues that may become apparent while trying to establish communication between the Local Domibus Gateways and the Domibus Gateway. Both scenarios are beneficial for Local Domibus Gateways' administrators, as they provide them with the ability to effectively evaluate the

¹⁸ The e-CODEX Central Testing Platform (CTP) is a specialized component of the e-CODEX system, dedicated to testing. It functions as an access point, providing various functionalities for entities to validate the operation of their e-CODEX access points and ensure compliance with digital procedural standards. The CTP is essential for ensuring that all components of the e-CODEX system interact correctly and efficiently, maintaining the integrity and reliability of cross-border judicial communications within the EU.



communication state between their systems and the central Domibus Gateway through the LEILA Testing System (being developed for this purpose). The LEILA Testing System and test scenarios are described in more detail in LEILA Project Deliverable D3.3 ‘Report on Testing and Validation’¹⁹.

LTS is built to support two principal functions. First, it processes all log activities from its installed Domibus Gateway, identifying every message exchange, regardless of whether they reach their intended destination. Second, it can function as a centralized sending hub, capable of creating and dispatching custom messages to any set up decentralized national system. It tracks the message’s journey and reports on its delivery success.

From a technical standpoint, the LTS comprises two main elements:

- a standalone, portable web application that is easily installable across various operating systems,
- a parser that processes, deciphers, and displays the messages exchanged within the LEILA environment. Through the LTS’s Web Graphical User Interface, users can view the status of message exchanges with the national system, checking for connectivity and interoperability issues.

To ensure compatibility with different systems and operating systems, LTS was developed using Python version 3, backed by a SQLite database engine in the backend. Additionally, a separate engine, operating at set intervals, persistently observes the LEILA’s environment, gathers the exchanged information, and updates the LTS accordingly.

Leila is accessible after submitting a request through the form located at the following address: <https://ejudicialauctions.eu/signal>.

The ‘Testing System Guide’ document details the specific steps and expected outcomes for each of these tests, guiding through the process of verifying the integrity and efficiency of the national system.

All tests can be considered successful when no problems are encountered in:

- exchanging between Domibus Gateways,
- exchanging entire message flows using all the forms between national system and European Platform for Judicial Auctions.

¹⁹ Available at <https://ejudicialauctions.eu/a/deliverables>



2.2.8. Training Legal Professionals

When a new Member State (or a national platform on judicial auctions) is willing to join the European Platform for Judicial Auctions, it is important to ensure that legal professionals within that state are adequately trained and supported to effectively utilize the Platform. This will not only ensure the success of the Platform on national level but will also promote efficient, transparent, and fair judicial auction system.

To ensure smooth communication and data exchange between the Member States and the European Platform for Judicial Auctions, legal professionals such as enforcement agents need to be trained to use the Platform effectively. There are two possible scenarios for training legal professionals depending on whether a Member State already has a national platform on judicial auctions in place or not.

In the first scenario, if a Member State has an existing national platform, the latter can be connected to the European Platform for Judicial Auctions, and the information listed therein will be automatically transmitted. Thus, the legal professionals in Member States with existing national platforms should be informed of the performance and functionalities of the European Platform for Judicial Auctions rather than training on specific usage and/or functionality. Such awareness activities may include details on the time it takes for a new auction to be added to the Platform, the timeframe for an auction to be removed from the Platform, and so on. Ensuring that the legal professionals are aware of the Platform's capabilities can help to streamline the process of sharing auction information and ultimately benefit both the participating Member State and potential buyers interested in participating in the respective national auctions.

In the second scenario, if a Member State does not have a national platform on judicial auctions, the legal professionals will need to use the Mini-LEILA standalone portal solution provided by the LEILA Project. In this case, they need to be trained on how to use the Mini-LEILA Local Portal to ensure that they can effectively send information about auctions to the European Platform for Judicial Auctions.

To achieve this, the following steps could be taken:

- **Needs assessment:** The Member State should conduct a needs assessment to identify the training needs of the legal professionals with regards to the use of the European Platform for Judicial Auctions in their respective scenario. This will help in customizing the training to suit the specific needs of the State.
- **Development of training materials:** Based on the needs assessment, the national project team should develop training materials that cover the functionality of the



Platform, its legal and procedural requirements tailored to the national context, and best practices for its use. These materials could include user manuals, video tutorials, and/or further awareness materials. To help with this task, the LEILA Consortium have delivered a European Platform for Judicial Auctions' User Manual.²⁰

- **Training sessions:** The Member State should organize training sessions for legal professionals, providing them with hands-on experience in using the Platform. These sessions could be conducted in-person or online, depending on the needs of the State.

Effective training and support for legal professionals are crucial for the successful adoption and utilization of the European Platform for Judicial Auctions. By conducting a needs assessment, developing appropriate training materials, and organizing training sessions, each Member State can ensure that its legal professionals are equipped with the necessary knowledge and skills to use the Platform as effectively as possible. The LEILA Consortium could provide additional support by offering training templates and examples, user support, and other resources to aid the Member State in this effort.²¹

2.2.9. Going Live

In conclusion, to successfully launch the use of the European Platform for Judicial Auctions platform, each new Member State must complete several crucial steps. This includes ensuring that the Platform meets all legal and procedural requirements on national level, customizing the Platform to meet their specific needs, conducting pilot testing to identify any issues, and providing training and support to the respective legal professionals. By completing these steps, the new Member State can successfully launch the Platform and begin using it for exchange of information on judicial auctions.

The respective competent body should also be prepared to continue monitoring and evaluating the Platform to ensure that it remains effective and efficient over time.

²⁰ Available at <https://ejudicialauctions.eu/a/how-to-use-the-platform>

²¹ Such could be arranged upon request by getting in contact with the LEILA Project Technical Team via <https://ejudicialauctions.eu/signal>



3. Integration Into the European e-Justice Portal

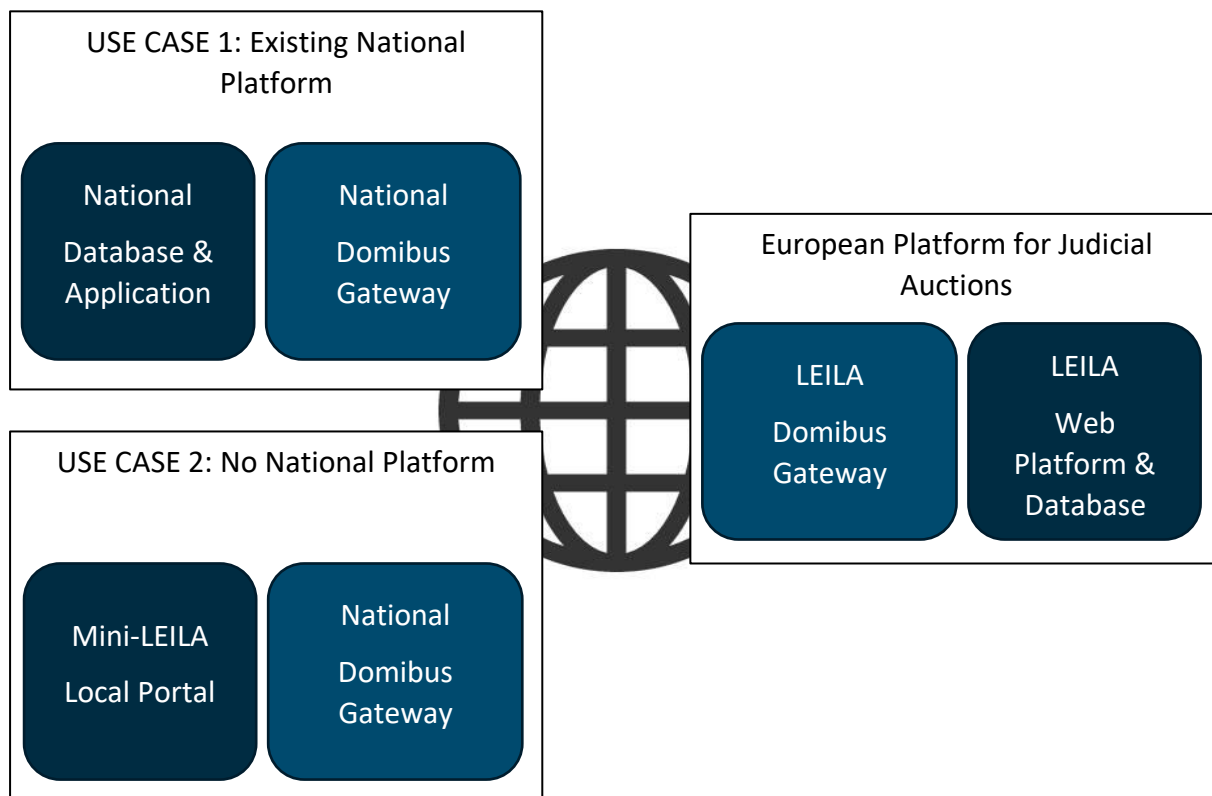


Figure 3 Overall architecture of the information flow (use-case based)

The European e-Justice Portal ('the Portal'), established in July 2010, serves as a comprehensive one-stop-shop for justice-related matters across the European Union. It caters to the needs of individuals, businesses, and justice professionals by providing a wealth of information on national and EU legal systems. With its user-friendly interface, the Portal has become an invaluable resource, registering millions of visits annually. It is not only a repository of information but also a platform for interactive services like filing claims and accessing various legal databases.

The integration of the European Platform for Judicial Auctions with the European e-Justice Portal represents a strategic opportunity to extend the reach and efficiency of judicial auctions information and services. This integration aligns with the Portal's mission to simplify and enhance access to justice, while concurrently expanding the European Platform for Judicial Auctions capabilities and visibility within the EU's legal domain.



3.1. Decision Making by Stakeholders

3.1.1. Available Documentation

The following documents contain information that can be persuasive for EC representatives managing the European e-Justice Portal to consider integrating with the European Platform for Judicial Auctions:

- **European Platform for Judicial Auctions’ User Manual²²**: This document constitutes the manual for using the functions of the European Platform for Judicial Auctions aimed at users. It illustrates its value for European citizens by emphasizing its user-friendliness, multilingual support, and other positive aspects such as intuitive navigation, comprehensive search functionality, secure data handling, and the ability to easily access a wide range of auctions across the European Union.
- **LEILA Project Deliverable D2.4 ‘Final Functional and Technical Requirements’²³**: This document evidences the relevance of the technical decisions made in the LEILA Project, such as the focus on interoperability and data exchange, the re-use of e-CODEX exchange infrastructure’s components, and the development of a comprehensive reference data set, underlining their effectiveness in achieving the Project’s objectives.

3.1.2. Convincing of European Platform on Judicial Auctions’ Value

The European e-Justice Portal serves as a pivotal hub for legal and judicial matters within the EU, engaging a diverse array of stakeholders crucial to its operation and efficacy. This includes the European Judicial Networks, which are instrumental in facilitating judicial cooperation across Member States. Legal professionals such as lawyers, notaries, and mediators form the backbone of the Portal’s user base, applying its resources in their daily practices. Additionally, judicial training institutions play a key role in educating new and existing legal practitioners about the portal’s features and functionalities. The national Ministries of Justice oversee the legal systems and regulatory compliance, making their

²² Available at <https://ejudicialauctions.eu/a/how-to-deploy-the-platform>

²³ Available at <https://ejudicialauctions.eu/a/deliverables>



involvement essential. Furthermore, entities like Eurojust and the European Law Institute contribute with their expertise in legal coordination and alignment with EU-wide legal frameworks. These stakeholders collectively ensure the Portal's relevance, utility, and adherence to the overarching goals of European judicial cooperation.

To successfully integrate the European Platform for Judicial Auctions into the European e-Justice Portal, it is imperative to convince these diverse stakeholders of its utility and value. A tailored communication strategy is essential for this purpose. This strategy should involve creating targeted messages that highlight how the European Platform for Judicial Auctions enhances the efficiency, transparency, and accessibility of judicial auctions, aligning with the objectives of the Portal. Engaging stakeholders through informational webinars, workshops, and direct consultations is key.

- For legal professionals, showcasing the European Platform for Judicial Auctions practical benefits in streamlining auction processes can be effective.
- For judicial training institutions, integrating the European Platform for Judicial Auctions into their training modules can help inculcate its usage among new legal practitioners.
- Collaboration with National Ministries of Justice is crucial to ensure regulatory alignment and gain official endorsements.

This multi-faceted approach aims not only to inform but also to actively involve stakeholders in the integration process, ensuring a comprehensive and cooperative implementation of the European Platform for Judicial Auctions within the EU e-Justice framework.

3.1.3. Convincing of Feasibility

LEILA Project Deliverable D2.4 'Final Functional and Technical Requirements'²⁴ serves as a pivotal resource in the decision phase of integrating the European Platform for Judicial Auctions into the European e-Justice Portal, offering essential information and analysis that supports the case for this integration:

- **Supporting decision-making:** The deliverable provides crucial insights into the challenges and inefficiencies present in the current state of judicial auctions across EU Member States. This information is vital for stakeholders to understand

²⁴ Available at <https://ejudicialauctions.eu/a/deliverables>



the need for a unified platform like the European Platform for Judicial Auctions, helping to drive the decision to integrate it into the European e-Justice Portal.

- **Highlighting the need for integration:** The document outlines the variation in rules and the fragmentation in the promotion of assets for sale, which negatively impacts competition, sale value, and the time to conclude sales. These points argue the benefits of integrating European Platform for Judicial Auctions for a more streamlined, efficient, and unified judicial auction system across the EU.
- **Demonstrating the technical feasibility:** The LEILA Project facilitates, consolidates, and supports data exchange over e-CODEX, the exchange infrastructure supporting EU e-Justice cross-border services. This showcases the technical feasibility and practicality of integrating the European Platform for Judicial Auctions with the European e-Justice Portal.
- **Providing solutions for Member States:** The document also addresses solutions for Member States without government-managed platforms on judicial auctions, indicating how the European Platform for Judicial Auctions can enhance the accessibility and availability of judicial auction data. This aspect is crucial for states without such infrastructure, emphasizing the inclusive and comprehensive nature of the European Platform for Judicial Auctions integration.

3.2. Technical Integration of the Platform

Integrating the European Platform for Judicial Auctions into the EU e-Justice Portal would provide significant benefits for the European Commission as well.

Firstly, it would increase the visibility and accessibility of the Platform to legal professionals and potential auction participants throughout the EU. The European e-Justice Portal is a well-established and widely-used platform for legal information and services, making it an ideal location to showcase the auction platform.

Integrating the European Platform for Judicial Auctions into the European e-Justice Portal would also provide a centralized location for all legal auctions, simplifying the process for both legal professionals and auction participants.

Finally, integrating the European Platform for Judicial Auctions into the European e-Justice Portal would align with the European Commission's broader efforts to promote the use of digital tools and services to improve access to justice across the EU.



3.2.1. Available Documentation

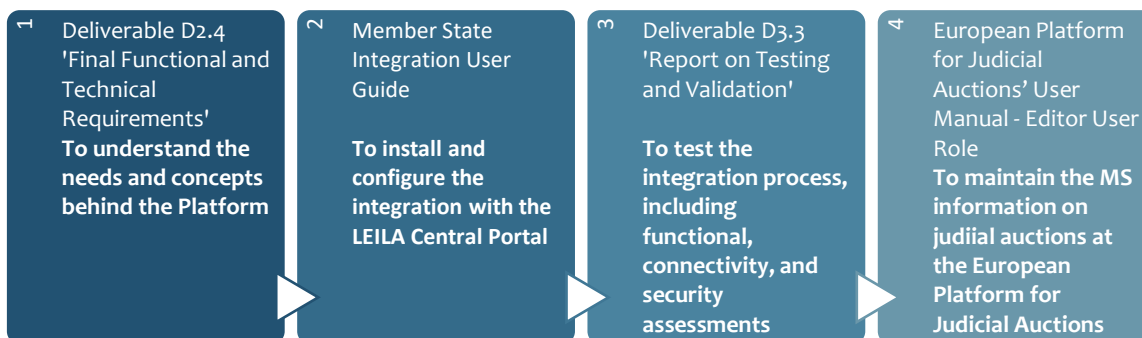


Figure 4 Available documentation on the technical integration of the European Platform for Judicial Auctions

- **LEILA Project Deliverable D2.4 ‘Final Functional and Technical Requirements’²⁵:** This document evidences the relevance of the technical decisions made in the LEILA Project, such as the focus on interoperability and data exchange, the re-use of e-CODEX exchange infrastructure’s components, and the development of a comprehensive reference data set, underlining their effectiveness in achieving the Project's objectives.
- **European Platform for Judicial Auctions’ Member State Integration User Guide²⁶:** This document constitutes the basic installation and configuration manual on the integration of a Member State’s national platform on judicial auctions with the LEILA Central Portal to send auction data using the Domibus Gateway; the document is aimed at technical experts.
- **European Platform for Judicial Auctions’ Architecture (High Level Design)²⁷:** This document offers essential technical information to assist the European Commission in integrating the European Platform for Judicial Auctions with the European e-Justice Portal. Key technical aspects included therein are: system architecture and design (including data flow diagrams and information on system components), data exchange protocols and standards, interoperability aspects, security and compliance considerations.

²⁵ Available at <https://ejudicialauctions.eu/a/deliverables>

²⁶ Available at <https://ejudicialauctions.eu/a/how-to-deploy-the-platform>

²⁷ Available at <https://ejudicialauctions.eu/a/how-to-deploy-the-platform>



- **LEILA Project Deliverable D3.3 ‘Report on Testing and Validation’²⁸**: This document consolidates all topics relevant to the testing of the European Platform for Judicial Auctions’ components, including testing procedures and relevant functional, connectivity, and security assessments.
- **European Platform for Judicial Auctions’ User Manual - Editor User Role²⁹**: This document constitutes the user manual for the functions of the European Platform for Judicial Auctions; the document is aimed at Platform’s operators with the role of Editors, considering this role allows for the modification of the Platform’s content.

3.2.2. Main Technical Features



Figure 5 Main technical features of the LEILA Project framework

In LEILA Project Deliverable D2.4 ‘Final Functional and Technical Requirements’, the data model and use cases are comprehensively outlined, providing a clear foundation for the technical integration of the European Platform for Judicial Auctions into the European e-Justice Portal. Key points in regard follow below:

Use Cases

- **Use Case 1 – Federated Search in Existing National Portals**: This use case focuses on the interconnection of national databases on judicial auctions, via the existing national solutions, enabling a federated search over data from all participating Member States through the Platform.
- **Use Case 2 – Handling Situations Without National Portals**: This use case addresses scenarios where a (centralized) national platform on judicial auctions

²⁸ Available at <https://ejudicialauctions.eu/a/deliverables>

²⁹ Available at <https://ejudicialauctions.eu/a/how-to-deploy-the-platform>



does not exist, requiring additional functionalities for sharing national judicial auction data by States that lack a judicial auctions platform.

Data Model

The LEILA Data Model includes a detailed XML schema to validate the data exchange between national platforms on judicial auctions and the European Platform for Judicial Auctions, facilitating unified search capabilities for assets and auctions. Key components of the model include:

- Asset Profile:
 - Categories: Movable, Immovable, Rights, Other
 - Attributes: Basic Price, Market Value, Auction ID, Deposit and Currency, Deadline for Submitting Deposit
- Auction Details: Auction ID, Modality (Electronic, In-Person, Hybrid, Direct Sale), Date for Judicial Auction, Location of the Auction, Deadline for Submitting Deposit
- Asset Types:
 - Movable: Vehicles, Devices and Appliances, Machinery and Equipment, Aircrafts, Boats, Commercial Vessels, etc.
 - Immovable: Buildings (Residential, Auxiliary, Commercial), Land (Residential, Farm, Natural, Protected)
 - Rights: Shares (Various Types), Bonds, Other Property Rights (Agreements, Heritage Rights, etc.)

Technical Requirements

With regard to integrating the European Platform for Judicial Auctions into the European e-Justice Portal, the LEILA Project Deliverable D2.4 ‘Final Functional and Technical Requirements’ also outlines several crucial technical features. These requirements include:

- Directory The European Platform for Judicial Auctions should maintain a directory of authentic sources connected to it, particularly the national platforms on judicial auctions. This directory is essential for ensuring that the Platform aggregates and provides access to legitimate and authoritative sources of judicial auction data.
- Search Broker :



- The Platform maintains a search broker to process search queries into the central LEILA Database, incorporating semantically transformed RDS (Relational Database Service) data.
- The Platform imports data from national platforms on judicial auctions to the central LEILA Database.
- The Platform includes a timestamp for the periodic transfer of information coming from national platforms on judicial auctions.
- Notifications :
 - The Platform allows for an update of the data field in the MDS (Master Data Services) database.
 - The Platform implements push notifications to users.
- Logs and Statistics :
 - The platform collects logs for various purposes, including
 - Maintaining audit trails and ensure accountability.
 - Conducting internal quality assurance evaluations and maintain accountability based on LEILA Project Key Performance Indicators (KPIs).
 - Gathering and sharing statistics regarding access and usage of the national platforms on judicial auctions.

Technical Features of the Portal

The European Platform for Judicial Auctions, which serves as the main user interface, is built using Liferay, a web and content management platform that handles business logic and content management. The Platform also incorporates Elasticsearch, an indexing engine that supports high-performance search functionality, including free text search.

Data ingestion is handled by a batch process written in Java with the Spring framework, which is scheduled by a crontab configured within the Liferay administrative area. The LEILA Database stores all relevant data, including information on auctions and their outcomes.

The LEILA Domibus Gateway is deployed on Tomcat and its database is based on MySQL. It connects directly with Member States' Local Domibus Gateways for secure message exchange using a certificate installed within the Domibus trust store. Member States have their own local web portals, which are also built using Liferay and connected to their respective Local Domibus Gateways.



3.2.3. Technical Integration

The ‘Member State Integration User Guide’ document plays a critical role in the integration of the European Platform for Judicial Auctions into the European e-Justice Portal. It can be utilized with regards to:

- **Guidance for Technical Operators:** The guide serves as a comprehensive manual for technical experts, detailing the basic installation and configuration of the European Platform for Judicial Auctions. This is essential for ensuring that the technical foundation of the European Platform for Judicial Auctions is properly established within the European e-Justice Portal’s infrastructure.
- **Facilitating Judicial Auctions Visualization and Search:** The guide explains how the Platform facilitates the visualization and search of judicial auctions, based on information coming from the national platforms on judicial auctions from EU States participating in LEILA Project framework. This functionality is key to integrating the European Platform for Judicial Auctions with the European e-Justice Portal, as it allows for seamless access to and management of judicial auction information across the EU.
- **Content Management Capabilities:** The guide provides instructions for users with editor’s rights on how to post, edit, or remove various types of content such as news, FAQs, tutorials, and regulations. This feature is crucial for maintaining the relevance and accuracy of information on the European e-Justice Portal, via the European Platform for Judicial Auctions’ tools, ensuring that end users have access to the latest and most pertinent auction-related content.
- **Integration with National Platforms on Judicial Auctions:** The document also details how the LEILA Central Portal will make periodic requests to the national platforms on judicial auctions of the participating Member States to access their judicial auctions data. These auctions’ details will be created as web content of Liferay, facilitating their publication on the European e-Justice Portal. This process is vital for the integration, as it ensures that the European e-Justice Portal remains a centralized, up-to-date source of judicial auction information from across the EU.

In summary, the ‘Member State Integration User Guide’ document provides crucial information for the technical setup and content management of the European Platform for Judicial Auctions, ensuring its effective integration and functionality within the European e-Justice Portal.



3.2.4. Testing the Integration

LEILA Testing System Guide

The 'LEILA Testing System Guide' document can be valuable for the European e-Justice Portal's team in testing the integration and functionality of the European e-Justice Portal with the European Platform for Judicial Auctions, including:

- **Connectivity Tests:** The guide details the relevant connectivity tests that can be adapted to check the interaction between Member States' national platforms on judicial auctions and the European e-Justice Portal. These tests will help determining if the respective national systems can successfully send and receive information to and from the European e-Justice Portal, via the European Platform for Judicial Auctions' tools, ensuring reliable data transmission.
- **Ingestion and Data Handling Tests:** To ensure that the European e-Justice Portal correctly processes data coming from the respective national systems, the ingestion tests outlined in the guide can be employed. These tests help confirming that auctions' data and other relevant information are accurately captured, stored, and retrievable within the European e-Justice Portal, via the European Platform for Judicial Auctions' tools.
- **User Interface and Functionality Testing:** Using the guide's approach to testing user interfaces and system functionalities, European e-Justice Portal's officials can assess how well the end users are served. This includes verifying the ease of use, response time, and accuracy of information retrieval.
- **Troubleshooting and Resolving Issues:** The troubleshooting procedures and log analysis techniques, provided in the guide, are critical for identifying and resolving any integration or functionality issues between the national platforms on judicial auctions and the European e-Justice Portal, via the European Platform for Judicial Auctions' tools.

By utilizing the 'LEILA Testing System Guide' document, the European e-Justice Portal can conduct thorough and effective tests to ensure that the integration of the European Platform for Judicial Auctions with the European e-Justice platform is successful. This ensures that the Leila's environment works efficiently and meets the needs of its users across the EU.



LEILA Testing System Environment

The LEILA Testing System's environment is based on one virtual machine hosted at University of Thessaloniki (Greece).

The environment is composed of:

- One instance of the European Platform for Judicial Auctions, based on Liferay;
- The ingestion process to retrieve the auction data from Member States' national platforms on judicial auctions via their Domibus Gateways;
- One instance of Domibus Gateway installed to simulate the integration with one Member State (Domibus Greece).
- One instance of MySQL Data base to store the data of all architectural components

3.2.5. Maintaining the Platform

The 'European Platform for Judicial Auctions' User Manual - Editor User Role' document serves as a crucial tool in the integration of the European Platform for Judicial Auctions into the European e-Justice Portal with regards to:

- **Content Management and Modification:** The guide provides detailed instructions for users with 'Editor' user roles to modify the Platform and its content. This is essential for keeping the European Platform for Judicial Auctions updated and relevant, ensuring that the information presented is current and accurate.
- **Web Content Customization:** Editors are empowered to add, modify, or remove web content in various sections of the Platform. This ability is vital for tailoring the European Platform for Judicial Auctions' presentation and functionality within the European e-Justice Portal, allowing for the integration of specific content and features that align with the Portal's standards and user needs.
- **Utilizing Pre-Configured Page Templates:** The guide also explains how to use pre-configured page templates. This feature is particularly useful for maintaining a consistent look and feel across the Platform, which is important for a seamless user experience within the European e-Justice Portal.
- **Ensuring Consistent User Experience:** By following the guide, Editors can ensure that the necessary information for each web page is accurately entered and configured. This consistency is key to providing a reliable and user-friendly



interface for those accessing the European Platform for Judicial Auctions through the European e-Justice Portal.

- **Facilitating Portal Page Additions and Modifications:** The ability to add and modify Platform’s pages enables the integration of new features and functionalities specific to the European e-Justice Portal’s requirements. This flexibility ensures that the European Platform for Judicial Auctions can evolve and adapt as needed within the European e-Justice Portal’s framework.

In summary, the European Platform for Judicial Auctions’ User Manual - Editor User Role’ document is a comprehensive resource for managing and customizing the European Platform for Judicial Auctions integration into the European e-Justice Portal. Its detailed instructions and features enable editors to effectively tailor the Platform to meet the specific needs and standards of the European e-Justice Portal, ensuring a high-quality user experience.



4. Recommendation on the Future Development of the Platform

The LEILA Project has the potential to significantly improve the efficiency and transparency of judicial auctions across Europe. To fully realize this potential, it is important to develop a comprehensive strategy for the future development of the European Platform for Judicial Auctions already developed. This strategy should focus on enhancing user experience, increasing adoption, supporting technical innovation, ensuring compliance with legal and regulatory frameworks, and providing technical support. In this section, we provide recommendations for each of these areas to help ensure that the European Platform for Judicial Auctions remains a valuable tool for all stakeholders involved in the judicial auction processes.

4.1. Enhancing User Experience

In order to ensure that the European Platform for Judicial Auctions is widely adopted and effectively used by legal professionals and potential bidders, user experience improvements should be prioritized. This could involve streamlining the interface, enhancing accessibility for individuals with disabilities.

Recommendation 1: To improve the user experience of the Platform, user experience research study should be conducted to better understand the needs and pain points of legal professionals and potential bidders. This could involve soliciting feedback through surveys, focus groups, or usability testing, and using these insights to inform design decisions.

Recommendation 2: Another way to improve the user experience is to simplify the registration process on national system for potential bidders. This could involve integrating the registration process with existing digital identity systems, such as eIDAS, to make it faster and more convenient for users to sign up and participate in auctions.

Recommendation 3: It should be ensured that the auction platform is accessible to individuals with disabilities, in compliance with relevant accessibility standards such as WCAG 2.1. This could involve conducting accessibility audits and user testing with



individuals with disabilities to identify and address any barriers towards Platform's use.

By prioritizing user experience improvements for the European Platform for Judicial Auctions, the European Commission could help ensuring that the Platform is widely adopted and effectively used by legal professionals and potential bidders, leading to increased efficiency, transparency, and fairness in judicial auctions across Member States.

4.2. Increasing Adoption

The successful adoption and implementation of the European Platform for Judicial Auctions depend on the willingness of legal professionals and potential auction participants to use it. Therefore, the adoption of the Platform should be increased by promoting its benefits, providing training and support, and collaborating with national competent / decision-making bodies, enforcement agents, bailiffs, and lawyers. Here are three recommendations to achieve this goal:

Recommendation 1: Targeted promotional campaigns should be developed to raise awareness of the Platform's benefits among legal professionals and potential auction participants. These campaigns could be enhanced through dedicated informational materials, webinars, and workshops.

Recommendation 2: Comprehensive training and support to legal professionals and other key stakeholders should be provided to ensure that they can effectively utilize the Platform. This could include training sessions on how to use the Platform's features and providing technical support for any issues that arise with regards to its use.

Recommendation 3: Collaborations with Member States' competent bodies and bailiffs', notaries', and lawyers' professional bodies should be established to promote the adoption of the Platform. This could include forming partnerships with professional organizations and providing incentives for early adopters.

In conclusion, efforts should be focused on increasing the adoption of the European Platform for Judicial Auctions among legal professionals and potential auction participants to ensure its success. By promoting its benefits, providing training and support, and collaborating with key stakeholders, it can be ensured that the Platform becomes a widely adopted and effective tool informing about judicial auctions..



4.3. Providing Technical Support

Continuous technical support and resources provided to national competent / decision-making bodies, and enforcement agents', bailiffs', and lawyers' professional bodies (for example, via dedicated EU funding) could enable them to effectively utilize the European Platform for Judicial Auctions in accordance with their local legal and procedural requirements.

Although eu-LISA is not directly involved in the LEILA Project, the Agency plays an important role in the maintenance and future development of the e-CODEX system. As part of its responsibilities, eu-LISA provides technical support and assistance to Member States in the implementation of e-CODEX solutions, which includes the Domibus gateway. In the context of the LEILA Project framework, eu-LISA could provide technical expertise and assistance to Member States in the integration of their national platforms on judicial auctions with the Domibus gateway. This support could include the provision of training and guidance on technical specifications, as well as troubleshooting and problem-solving assistance, specifically focusing on e-CODEX related topics. Ultimately, the involvement of eu-LISA can help to ensure the seamless and effective integration of any national system/platform with the e-CODEX exchange infrastructure, which is critical to the success of the LEILA Project framework and the broader goal of enhancing access to information on judicial auctions across the EU.

By addressing these points, the improvement and evolution of the European Platform for Judicial Auctions could be continued, alongside promoting greater efficiency, transparency, and fairness in the auction processes.



5. Conclusion

The Action Plan for LEILA EU-wide Adoption, presented herein, outlines a pragmatic approach for the expansion of the European Platform for Judicial Auctions within the European Union. It focuses on two key aspects: the integration of new Member States and the alignment with the European e-Justice Portal.

Integrating new Member States into the European Platform for Judicial Auctions is an important step towards harmonizing judicial auctions' processes across the EU. Such an integration aims to provide a consistent and efficient framework adaptable to the varying technological landscapes of the different Member States. It is an essential move for creating a more uniform judicial auction framework within the EU.

In parallel, the inclusion of the European Platform for Judicial Auctions within the European e-Justice Portal could be a significant development. This integration is expected to enhance the visibility and accessibility of the Platform, linking it to a broader EU judicial context. The alignment with the European e-Justice Portal is a practical measure to ensure that the European Platform for Judicial Auctions serves a wide range of users seeking judicial auctions' information across the EU.

The Action Plan thus represents a careful and methodical approach to improving the EU judicial auction system. By focusing on the expansion of the European Platform for Judicial Auctions to new Member States and its integration with the European e-Justice Portal, the Action Plan contributes to the goal of making judicial auctions more cohesive and accessible across the European Union. This approach is structured to support a gradual and effective implementation of the European Platform for Judicial Auctions in the broader context of EU judicial processes.



Appendix 1. References of LEILA Project Deliverables

Deliverable	Information	Target Audience	Location
LEILA Project Deliverable D2.4 'Final Functional and Technical Requirements'	Technical compatibility assessment for national platforms on judicial auctions with the LEILA Project Framework and the European Platform for Judicial Auctions as such.	IT teams, IT experts	https://eujudicialauctions.eu/a/deliverables
LEILA Project Deliverable D3.3 'Report on Testing and Validation'	Testing information and assessments of the European Platform for Judicial Auctions' components, incl. testing procedures and relevant functional, connectivity, and security assessments	IT teams, IT experts (involved in testing processes)	https://eujudicialauctions.eu/a/deliverables
European Platform for Judicial Auctions' Architecture (High Level Design)	A visual representation of how the European Platform for Judicial Auctions works, what are the different components therein and how they interact with each other	Policy makers, project managers	https://eujudicialauctions.eu/a/how-to-deploy-the-platform



European Platform for Judicial Auctions' Member State Integration User Guide	Guide for integrating national auction platforms with the European Platform for Judicial Auctions.	IT teams in Member States' competent bodies responsible for managing the respective national platforms	https://ejudicialauctions.eu/a/how-to-deploy-the-platform
Mini-LEILA Installation Guide	Manual for setting up the Mini-LEILA standalone solution for Member States without (centralized) national platforms on judicial auctions	IT teams in Member States' competent bodies without (centralized) national platforms on judicial auctions	https://ejudicialauctions.eu/a/how-to-deploy-the-platform
European Platform for Judicial Auctions' REST API Integration Guide	Instructions for setting up an API to connect multiple auction platforms to Mini-LEILA standalone solution	IT teams in Member States' competent bodies without (centralized) national platforms on judicial auctions	https://ejudicialauctions.eu/a/how-to-deploy-the-platform
LEILA Testing System Guide	A suite of tests for monitoring and validating Platform's functionality and compatibility.	IT teams, IT experts (involved in testing processes)	https://ejudicialauctions.eu/a/how-to-deploy-the-platform
European Platform for Judicial Auctions' User Manual - Editor User Role	Manual for maintaining and updating European Platform for Judicial Auctions' content.	Editors and content managers	https://ejudicialauctions.eu/a/how-to-deploy-the-platform
European Platform for Judicial Auctions' User Manual	Comprehensive guide on using the European Platform for Judicial Auctions from an end-user perspective.	Legal professionals (enforcement agents, notaries, lawyers, etc.), potential auction participants	https://ejudicialauctions.eu/a/how-to-use-the-platform



Appendix 2. Data Model for Assets

Asset Type	
Code	Asset
M10000	Movable
I20000	Immovable
R30000	Rights

Asset Immovable	
Code	EN
I21000	Buildings
I22000	Land
I23000	Others

Asset Movable	
Code	Asset Type
M11000	Commercial vessels
M12000	Boats
M13000	Vehicles
M14000	Aircrafts
M15000	Machinery and equipment
M16000	Devices and appliances
M17000	Others

Asset Rights	
Code	EN
R31000	Shares



R32000	Bonds
R33000	Others property rights

Category Type Movable

Code	EN
M11001	Passenger
M11002	cargo
M11003	ferry
M11004	boats
M11005	specific purpose
M11006	other
M12001	fishing
M12002	recreational
M12003	sport
M13001	car
M13002	bus
M13003	motorcycle
M13004	truck
M13005	van
M13006	recreational
M13007	special purpose
M13008	automotive spare part
M13009	other
M14001	airplane
M14002	helicopter
M14003	hydroplane
M14004	drone



M14005	other
M15001	agricultural
M15002	industrial
M15003	construction
M15004	electromedical
M15005	other
M16001	computer and electronics
M16002	audio and video
M16003	household
M16004	other

Category Type Immovable

Code	EN
I21001	residential
I21002	auxiliary
I21003	commercial
I21004	other
I22001	residential
I22002	farm
I22003	natural
I22004	protected
I22005	other

Category Type Rights

Code	EN
R31001	securities recorded on accounts with the CDCC
R31002	shares and business interests in a company



R31003	shares/no share document
R31004	investment fund shares
R31005	other
R33001	agreement
R33002	heritage
R33003	rights
R33004	rights from a dispute
R33005	uncollected receivables
R33006	royalties
R33007	patents
R33008	other

Sales Modality

Code	EN
X5001	Electronic auction
X5002	In person auction
X5003	Hybrid auction
X5004	Direct sale