



Handover Document

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1. Introduction

The EDSSI L2 project builds on the EDSSI project, which aims to harmonise the operation of the different building blocks of the digital Erasmus+ ecosystem, mainstream the usage of secure authentication and extend the interoperability network to the student service providers. EDSSI created a core infrastructure that provides students with a seamless mobility experience.

The goals of the EDSSI L2 project were to expand the EU Student eCard core service platform by deploying:

- a) an upgraded eCard solution that will build upon the premise of an EU-wide usable and compatible Student eCard. The technical infrastructure will be a further development of the standardised and open-source NFC interface delivered by the EDSSI project, combined with an eIDAS based authentication module and a standardised eCard management solution for HEIs which are not equipped with card management systems.
- b) The deployment of the eSignature CEF building block to facilitate legal processes necessary for supporting the mobility of students abroad, enabling a number of use cases (accommodation and Online Learning Agreement implementations specifically in the project). In addition the project will create a proof-of-concept for eArchive building block in the context of the data exchange network and a usability report will be produced for the eTranslate CEF building block.

The purpose of this document is to provide an overview on the deliverables created under the project and ensure their transfer and availability to the European Health and Digital Executive Agency (HaDEA).

2. Overview of the deliverable structure

The project included a wide range of different activities and tasks – prototyping, design, development, service integration and testing in live environment, communication and dissemination, etc. – that resulted in different types of deliverables, that range from source codes to documentations and content updates in websites. The main activities and the types of deliverables created during the project are listed below:

- **Activity 1 - Enabling eCard Interoperability** – code source, accompanying technical documentation
- **Activity 2 - Deploying CEF building blocks and e-Services** – code source, accompanying technical documentation and reports
- **Activity 3 - Performing testing and roll-out** – testing and rollout reports
- **Activity 4 - Maintenance and operations** – reports and legal framework document
- **Activity 5 - Enhance adoption by the community** – communication and branding resources, reports on communication activities, resources published via EDSSI website
- **Activity 6 - Project management** – project management documentation

The project's main deliverable, that summarizes the progress and results as well as any potential problems that we faced and that – in some cases – still remains are presented in the Final Report.

To avoid redundancy, this document was created as a supplement to the Final Report, focusing mostly on the availability of the deliverables, effectively providing an extract and catalogue for the documentations and codes that are to be transferred. It also refers to the Sustainability report to provide an insight and lead for the upkeep and afterlife of the results of the project.

3. Location and availability

Being a development-oriented project some of the deliverables are effectively source codes. We have chosen the gitlab of Humboldt University as the primary repository for the codes, while the project documentation was stored in a google documents project folder.

According to the original plans the results are intended to remain available and accessible even after the end of the project. Since the original locations require the creation of accounts and authorization that would be harder to manage and sustain after the project ends, we have decided to move the whole repository of both the source codes and the documents to an open gitlab repository, that will remain accessible even without specific authorization.

This means that by the end of the project all relevant source codes and documentation are copied from their original locations (https://drive.google.com/drive/folders/1P0imrqAxc_rlX0ezZ5-L7w15WoQBnb7R and <https://scm.cms.hu-berlin.de/edssi-l2/> and) to the open gitlab repository, that can be found here:

https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/tree/geiseler_update?ref_type=heads

The resources are sorted by the Activities, reflected in the folder structure. Since navigating in gitlab may be confusing for users not familiar with the interface, under each of the Activity folders we have created a “*Deliverables*” folder, where we gathered the main results of the Activity – including the results of all relevant subtasks. Also, the list of deliverables in the last chapter of this document will provide direct links to each of the main deliverables for easier access.

Some tasks required setting up or updating other services or stores, or even provided updates and resources to the official EDSSI webpage. Most of these are not directly available in gitlab, instead they are available at their respective locations. More details are available in the relevant reports and at the webpage, notably:

- Task 2.2: Building an eSignature solution – technical report (link below)
- Task 4.7: Maintenance of the OSUA – technical report (link below)
- Task 5.4 and Task 5.5: Training resources and Stakeholder forum resources - <https://edssi.eu/> (also links below)

4. Sustainability

In order to preserve the results for future use several elements of the project are needed to be sustained. An extract of the sustainability report summarizes below, which elements may need to be upkept for future use.

Task	Description	After the project
1.2 NFC interoperability on eCards App	Software components (microservices) for the hardware emulation and service payload	Will remain open source and available on the GitLab after the project ends
1.4 Standardised eCard management solution	Based on the CMS of Humboldt University - Campus Card Berlin	Will remain open source and available on the GitLab after the project ends
1.5 Open source NFC reader system	TWN libID Reader compiled into an image to be installed on an Elatec TWN4 reader	Will remain open source and available on the GitLab after the project ends
2.2 eSignature solution	eIDAS compliant eSignature solution	Will remain open source and available on the GitLab after the project ends
2.3 eArchive proof-of-concept	Open source PoC applying the eArchiving to the transcript of records	Will remain open source and available on the GitLab after the project ends
2.4 eTranslate usability report	The report will analyse how the building block can enable multilingual communication both for the documents	Will remain open source and available on the GitLab after the project ends

Task	Description	After the project
	exchanged via the data exchange network and the user interfaces	
2.5 Housing web application proof-of-concept	Demonstration of a digital signature in a housing contract generated in a housing booking app and signed by the person looking for accommodation, using eduSign as signing service	Will remain open source and available on the GitLab after the project ends
3.5 Knowledge base update	The knowledge base of the helpdesk operated by the EUF	Will remain open source and available on the GitLab after the project ends
4.7 Maintenance of OSUA	Platform that lists open source pieces of software for universities	EUF's OSUA website, exposing a list of open source software contributions revolving around Higher education
5.3 edssi.eu website	A website explaining and presenting the project	AUTH IT Center will provide security updates and hosting services for the website when the project ends

More details can be found in the Sustainability report under Task 5.7.

5. List of deliverables

The following table lists all main deliverables of the project by activity, with direct link to their final versions available in open gitlab. **Note: the list focuses on the actual results of the project that will become publicly available, therefore project management documentations – that are confidential in nature – are excluded from this list.**

Activity and task	Document type	Location	Link
Activity 1 - Enabling eCard Interoperability		n/a	
Task 1.1 - Requirements analysis for eCard Services	Requirements analysis based on survey results (pdf)	edssi gitlab	https://scm.cms.hu-berlin.de/edssi-l2/activity-1-enabling-ecard-interoperability/-/blob/main/Requirement Analysis for eCard Services .pdf
	Survey form (google form) Note: requirement analysis document contains the questions	google docs	https://docs.google.com/forms/d/e/1FAIpQLSdKytmrRuMlB1l8tYg8bpxiLVvgstjVY8Spd6pU9eltJjSSQ/viewform
Task 1.2 - Development of NFC interoperability on eCards App	Code and accompanying technical documentation (repository) Proof-of-concept for Android only, Apple does not offer a viable solution at up to this date	edssi gitlab	https://scm.cms.hu-berlin.de/edssi-l2/activity-1-enabling-ecard-interoperability/-/tree/campuscard

Activity and task	Document type	Location	Link
Task 1.3 - Enabling eIDAS authentication on eCards App	Technical report (pdf)	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%201%20-%20Enabling%20eCard%20Interoperability/Task%201.3%20-%20Enabling%20eIDAS%20authentication%20on%20eCards%20App/1.3_Edssi_eIDAS.pdf
Task 1.4 - Providing standardised eCard management solution	Technical documentation (readme)	edssi l2 gitlab	https://scm.cms.hu-berlin.de/edssi-l2/activity-1-enabling-ecard-interoperability/-/blob/main/Readme
Task 1.5 - Developing open source NFC reader system for service provider	Technical documentation (pdf)	link broken!	https://scm.cms.hu-berlin.de/edssi-l2/activity-1-enabling-ecard-interoperability/-/blob/TWN4/TWN4/TWN4%20Configuration.pdf
Task 1.6 - Adapting feature sets from physical cards for the eCard App	Code (repository)	edssi l2 gitlab	https://scm.cms.hu-berlin.de/edssi-l2/activity-1-enabling-ecard-interoperability/-/tree/nu/esup-sgc-cms
	Technical documentation and report (pdf)	google docs	https://drive.google.com/file/d/1zz5SOFEGwX7Ob4EPL6L23xlXn9HLzEi7/view?usp=drive_link
Activity 2 - Deploying CEF building blocks and e-Services		open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/tree/geiseler_update/Activity%202%20-%20Deploying%20CEF%20building%20blocks%20and%20e-Services/Deliverables?ref_type=heads
Task 2.1 - Updating requirements analysis for building blocks and e-services	Requirements analysis document (docx) focusing on e-services	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%202%20-%20Deploying%20CEF%20building%20blocks%20and%20e-Services/Deliverables/MS_2_1_Updated_Requirement_analysis.docx?ref_type=heads
Task 2.2 - Building an eSignature solution	Technical report (docx)	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%202%20-%20Deploying%20CEF%20building%20blocks%20and%20e-Services/Deliverables/MS_2_2_E-signature_service.docx?ref_type=heads
Task 2.3 - Creating a Proof of concept for eArchive services	Technical report (docx)	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%202%20-%20Deploying%20CEF%20building%20blocks%20and%20e-Services/Deliverables/MS_2_3_eArchiving.docx?ref_type=heads
Task 2.4 - Usability report of eTranslate CEF building block	Technical report (docx)	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%202%20-%20Deploying%20CEF%20building%20blocks%20and%20e-Services/Deliverables/MS%202_4%20A%20usability%20report%20for%20the%20eTranslate%20CEF%20building%20block.docx?ref_type=heads
Task 2.5 - Student housing Web-Application	Technical report (docx)	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-

Activity and task	Document type	Location	Link
			/blob/geiseler_update/Activity%202%20-%20Deploying%20CEF%20building%20blocks%20and%20e-Services/Deliverables/MS_2_5_Student_housing_web-Application_with_eSignature_PoC.docx?ref_type=heads
	Code (zip)	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%202%20-%20Deploying%20CEF%20building%20blocks%20and%20e-Services/Deliverables/Task_2.5_-_edssi2-housing-app-main.zip?ref_type=heads
Task 2.6 – Connecting e-services to the Interoperability Infrastructure	Technical report (docx)	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%202%20-%20Deploying%20CEF%20building%20blocks%20and%20e-Services/Deliverables/MS_2_6_Recommendation_report_on_connecting_e-services_to_the_interoperability_infrastructure.docx?ref_type=heads
Activity 3 - Performing testing and roll-out		open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/tree/geiseler_update/Activity%203%20-%20Performing%20testing%20and%20roll-out/Deliverables?ref_type=heads
Task 3.1. Planning and testing phases	Testing plan (pdf)	google docs	https://drive.google.com/file/d/1EzC-hciatvAQG5gGSFwqMz87dX7JwBbK/view?usp=drive_link
Task 3.2. Internal synthetic testing	Summary reports and breakdowns (pdf)	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%203%20-%20Performing%20testing%20and%20roll-out/Deliverables/EDSSI_T3.2_SyntheticTesting.docx.pdf?ref_type=heads https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%203%20-%20Performing%20testing%20and%20roll-out/Deliverables/1st_internal_synthetic_testing-20230831T100229Z-001.zip?ref_type=heads https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%203%20-%20Performing%20testing%20and%20roll-out/Deliverables/2nd_internal_synthetic_testing-20230831T100250Z-001.zip?ref_type=heads
Task 3.3. Testing and roll-out	Testing summary report (pdf)	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%203%20-%20Performing%20testing%20and%20roll-out/Deliverables/EDSSI_T3.3_testing-report.docx.pdf?ref_type=heads
	Rollout summary report (pdf)	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%203%20-%20Performing%20testing%20and%20roll-out/Deliverables/EDSSI_T3.3_testing-report.docx.pdf?ref_type=heads

Activity and task	Document type	Location	Link
			%20Performing%20testing%20and%20roll-out/Deliverables/EDSSI_T3.3_roll_out-report.docx.pdf?ref_type=heads
Task 3.4 Updating the Knowledge base of the helpdesk	Report (docx) ???	google docs	https://docs.google.com/document/d/1a29Mk7AcFWihDeEtuNxpWCKrL5Q5QGg/edit?usp=sharing&ouid=104534938778743742570&rtpof=true&sd=true
Activity 4 - Maintenance and operations		open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/tree/geiseler_update/Activity%204%20-%20Maintenance%20and%20Operations/Deliverables?ref_type=heads
Task 4.1 - Updating the EDSSI solution architecture document			???
Task 4.3 - Monitoring of developments in the field of SSI & once- only principle	Report (docx)	google docs	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%204%20-%20Maintenance%20and%20Operations/Deliverables/M4.2-Monitoring_SSI_developments.docx?ref_type=heads
Task 4.7: Maintenance of the OSUA	Report (docx)	google docs	https://docs.google.com/document/d/1NOUMwOmo2Sd92dzaHogRFgv9Xz5IHGQf7KMzZDDVapk/edit?usp=sharing
Task 4.10: Legal framework	Legal framework (pdf)	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%204%20-%20Maintenance%20and%20Operations/Deliverables/EDSSI_L2_MS4.7_Legal_framework.pdf?ref_type=heads
Activity 5 - Enhance adoption by the community		open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/tree/geiseler_update/Activity%205%20-%20Enhance%20adoption%20by%20the%20community/Deliverables?ref_type=heads
Task 5.1 Deployment plan	Deployment plan (pdf)	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%205%20-%20Enhance%20adoption%20by%20the%20community/Deliverables/M5_1_DeploymentPlan_.pdf?ref_type=heads
Task 5.2 Update of the branding and communication kit	Communication plan (pdf)	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%205%20-%20Enhance%20adoption%20by%20the%20community/Deliverables/M5_2_communication_plan_EDSSI_L2.pdf?ref_type=heads
Task 5.3 Update of the main information portal	Content plan	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%205%20-%20Enhance%20adoption%20by%20the%20community/Deliverables/NEws_Content_proposal_for_the_website.docx?ref_type=heads
	Project public portal	external	www.edssi.eu

Activity and task	Document type	Location	Link
Task 5.4 Update of the training strategy material	Training strategy (pdf)	open edssi l2 gitlab	https://scm.cms.hu-berlin.de/open/edssi-l2-osua-components/-/blob/geiseler_update/Activity%20%20-%20%20Enhance%20adoption%20by%20the%20community/Deliverables/M5_4_TrainingStrategy.pdf?ref_type=heads
	Training material	external	https://edssi.eu/download-resources-second-edssi-conference/
Task 5.5 - MS 5.6 EDSSI governance - Stakeholder forums	Resources	external	https://edssi.eu/stakeholders-forum/
Task 5.6 Organising dissemination activities	"Detailed summary of our communication and dissemination efforts available here"	google docs	https://docs.google.com/spreadsheets/d/11rin6JpXCfCk769QD_p6Uw21RPtgefhrJOTaoVOIEFs/edit#gid=1206963433
Task 5.7 Sustainability requirements			Several links already mentioned above



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