

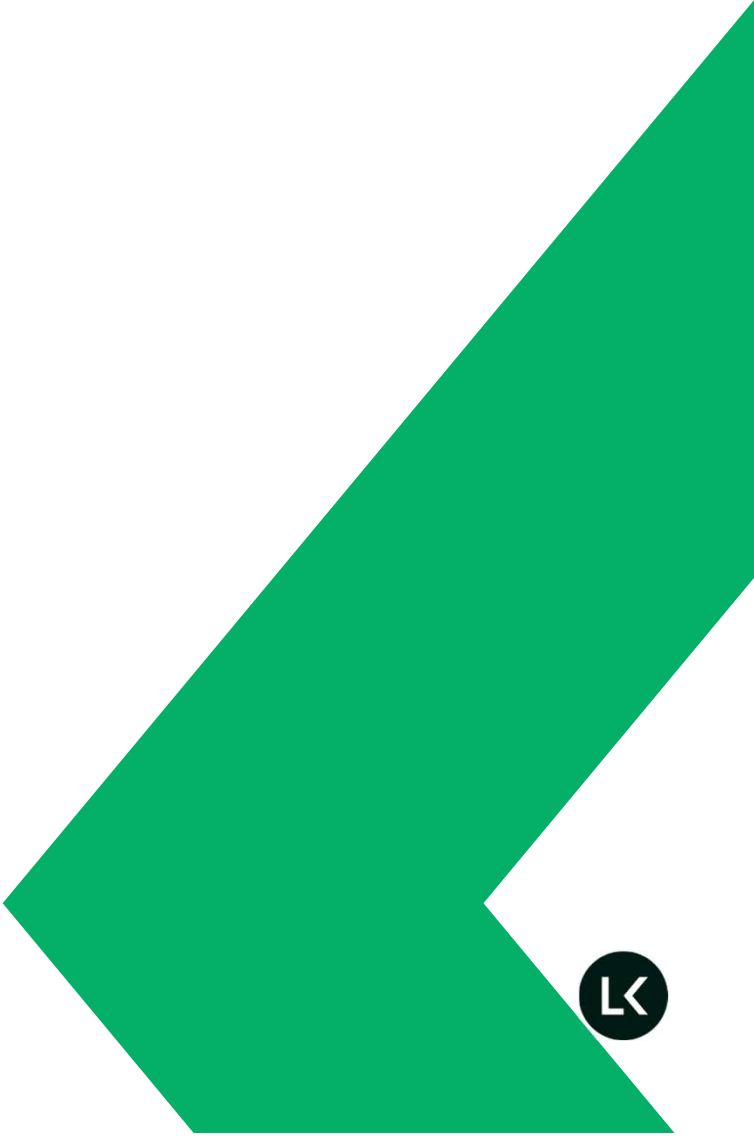
LADOKKONSORTIET

Ladok, degrees and DS

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Tor Fridell

2024-05-27



LK

What is Ladok?

- A Student Information and Management System
- The higher education institution's production system for education
- An archive of participation, results and degree certificates
- Used by 40 higher education institutions
- Connections to many other systems, within the higher education institutions as well as with other parties
- One single installation

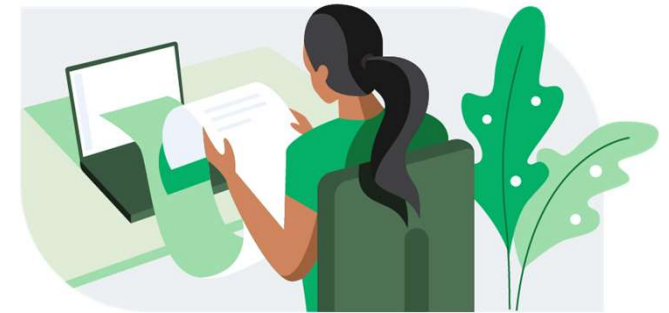
Ladok is used by:



About 27 000 teachers and administrators



About 350 000 active students



Information about 3,2 millions students in the system

LADOKKONSORTIET

Digital degrees and Diploma supplements

2024-05-27



Background

- Opportunity to digitally issue degrees in the current version of Ladok (from about 2017-2018)
 - A decision on paper was replaced by a digital decision
- Different processes among higher education institutions regarding decision and distribution:
 - Digital decision + digital document
 - Digital decision + paper document
 - Decision on paper
- Need of a joint solution
- Feasibility study identifying requirements from the sector (2020)
- The Ladok Consortium started investigating this in 2021
- A new process for distributing the degree certificate was possible to use from 2024
- Today almost all Swedish higher education institutions use the new digital process

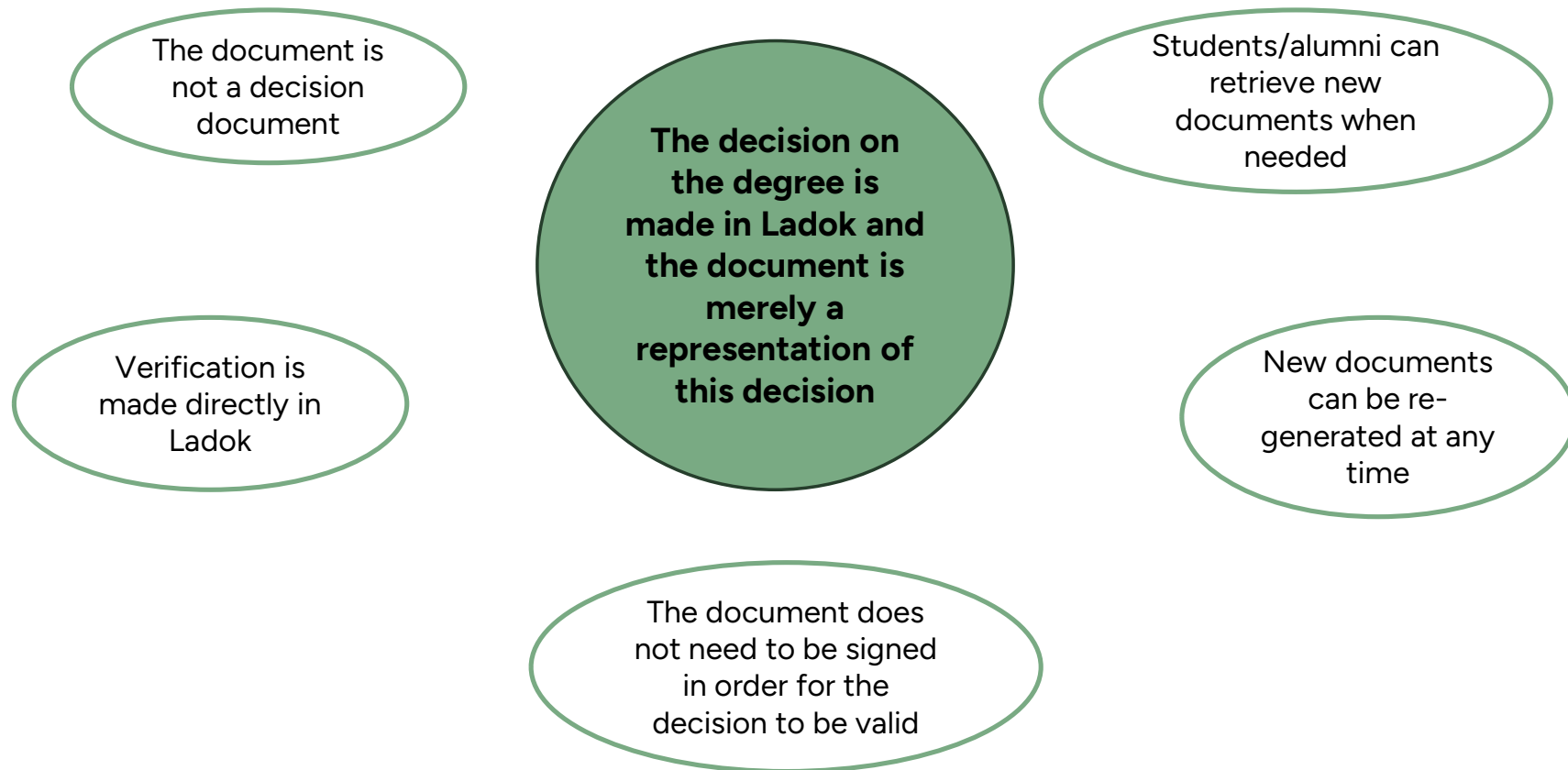


Identified requirements on digital degrees

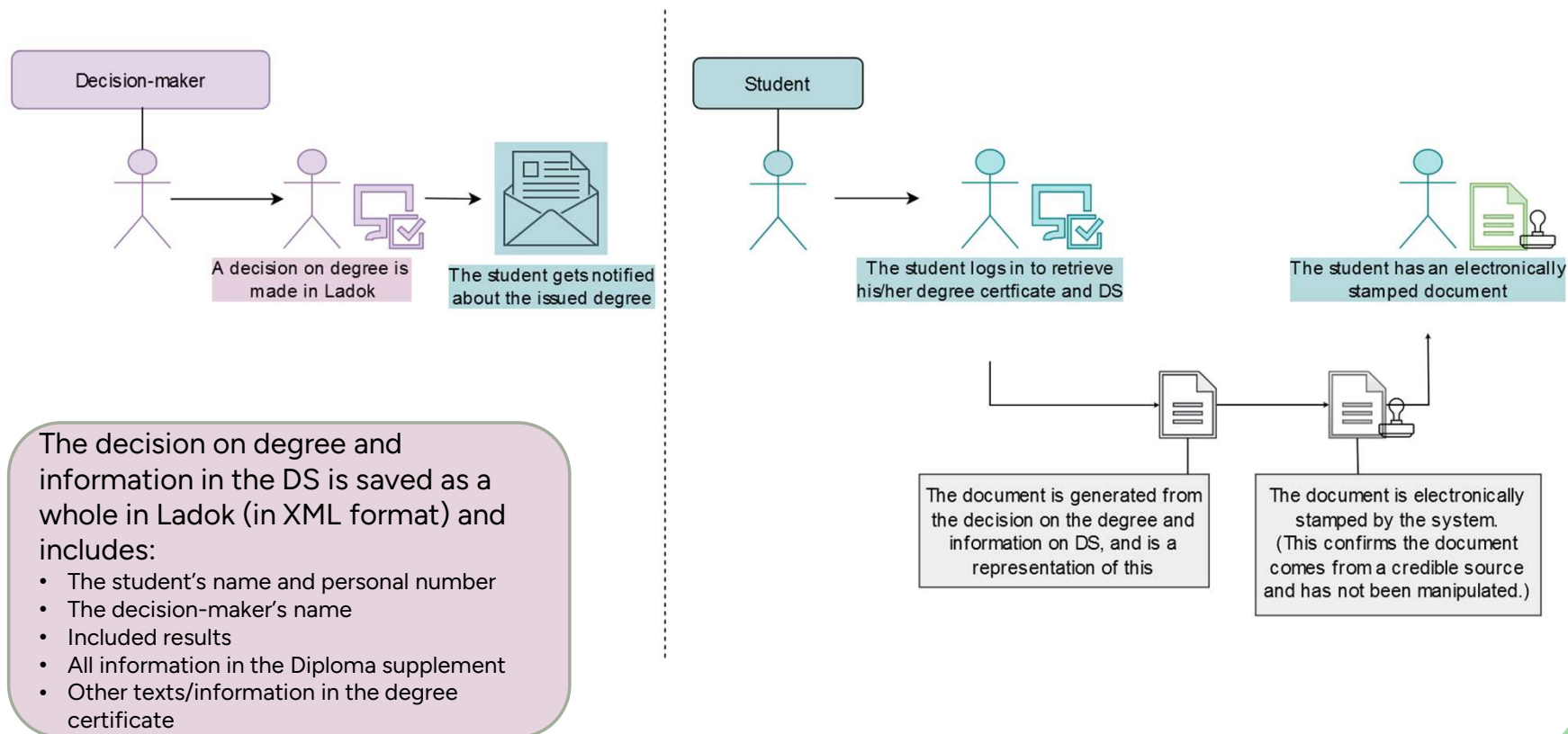
- Students need to be able to access their degree in a simple and secure way
- Students need to be able to share their degree with external recipients
- Students need to be able to present a correct degree certificate with a professional appearance
- External parties need to be able to verify that a student has a degree
- The system needs to handle changes that affect the degree certificate



Our digital approach to degrees and documents



The process from decision to distribution



Identified benefits

- The student can retrieve his/her degree certificate himself/herself once the decision on the degree has been made
- The processing time is reduced
- Legal certainty increases as it is the decision in Ladok that is central and against which verification is made
- The focus on the decision in Ladok enables more innovative solutions in the future, such as digital wallets



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Demo

2024-05-27



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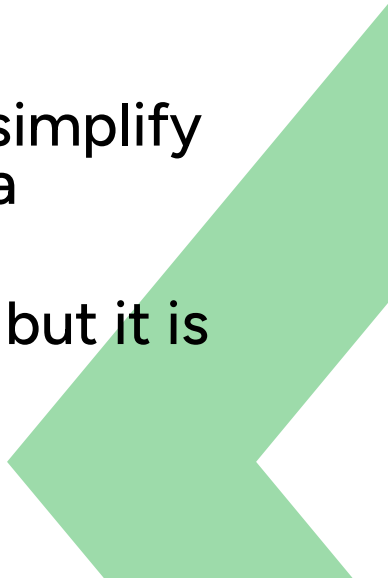
Electronic transport of results

EMREX

2024-05-27



EMREX is

- A network where a student/former student can access their assessment data, and share these data with a third party, like another university or a potential employer.
 - Transcript of Records
 - Degree certificate
 - Diploma Supplement
 - Both as machine-readable data and as PDF
 - It originated as an EU-funded project 2015-2017, aiming to simplify and increase the quality of the credit transfer process after a student exchange.
 - In production since 2017 in a number of countries in Europe but it is not limited to the EU .
- 

EMREX

- EMREX is a solution for transferring student data internationally in a machine-processable way. It is a technical solution used to securely exchange educational data between students or former students and third parties, for example higher education institutions (HEIs) and potential employers.
- The technical solution is extremely flexible
 - Anyone can easily build an EMREX client and any local system that delivers data upon request can be connected to an EMP.
 - User driven, student centered, adheres to Digital Data Sovereignty, "own your own data"
- An open network – result owner gives access =no judicial problems
- Useful to much more than student exchanges, for instance admission, recruitment systems, university alliances, and qualifications.
- Connection to both EUDI wallet and SDG



Countries connected to EMREX

- Croatia, almost all HEIs
- Finland, all HEIs
- Germany, 2 HEIs, 300 possible
- Greece, soon to start
- Italy, 2 HEIs
- The Netherlands, all HEIs
- Norway, all HEIs
- Poland, 10-20 HEIs, 60 possible
- Sweden, all HEIs
- Chile, one HEI

Prospects

China (CHESSIC)

Japan

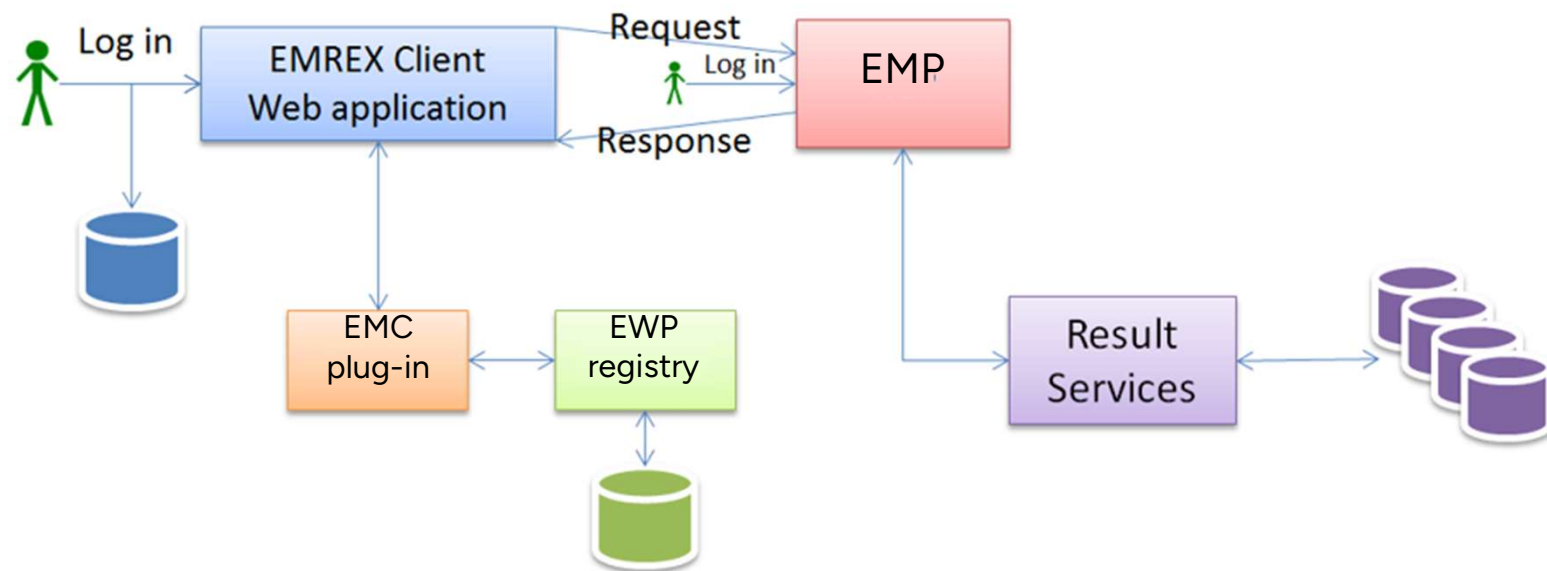
USA (PESC)

Australia

Denmark



EMREX





Tor Fridell 1961-06-16

Welcome to EMREX!

This service will enable you to import your awarded credits from other higher education institutions abroad connected to EMREX. Importing your records is a quick and easy process.

1. Select the country from which you want to retrieve your credits from.
2. Use the credentials from the host university where you studied to log into the system where your credits are stored.
3. Select the credits you want to import.
4. Review and confirm the selection. The records will be sent to your home university and you may save a copy in PDF format.
5. When the import is finished, please answer a few questions about the service to help us develop EMREX further.

So let's get started by selecting a country!

Choose Your Exchange Country:

	Croatia	Select
	Denmark	Select
	Finland	Select
	▶ Italy	
	Netherlands	Select
	Norway	Select
	▶ Poland	
	Sweden	Select





EMREX - Swedish National Contact Point

På Svenska:

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1. Select courses 2. Confirm selection 3. Back to home university

Select courses to import

Filter course list

Higher Education Institution	Level	Time period
☐ Linköping university	☐ Bachelor	From yyyy-MM-dd
		To yyyy-MM-dd
Reset		

☒ Computer Science and Engineering - 270 credits | TDDDA | Linköping university

Next

Title	Credits	Code	Grade	Date
☒ ▶ Introductory Physics	5.0	TFFY06	4	1983-10-24
☒ ▶ Introduction to Computer Science	7.5	TDDA01	5	1984-02-08
☒ ▶ Physical Laboratory Work, introductory course	4.5	TFFM05	G	1984-03-27
☒ ▶ Basic Electronics	5.0	TSDT61	3	1984-04-07
☒ ▶ Switching Theory and Logical Design	7.0	TSEA05	3	1984-05-23
☒ ▶ Programming and Program Development Project in Pascal	7.5	TDDA52	4	1984-07-02
☒ ▶ Methodology of Program Development	6.0	TDDA62	4	1984-10-23
☒ ▶ Digital Project Laboratory	6.0	TSEA31	G	1985-03-01
☒ ▶ Numerical Algorithms	5.0	TANA42	4	1985-04-17
☒ ▶ Electrical Measurements, basic course	3.0	TFMÅ06	G	1985-05-30
☒ ▶ Computer Hardware and Architecture	7.0	TSEA15	3	1985-05-31



Signature Not Verified
Digitally signed by emrex@linku.se
Date: 2019.06.04 10:24:17 CEST
Reason: Signed by Swedish EMREX - NCP
Location: Sweden

Transcript for Tor Fridell (1961-06-16)

Institution: Linköping University

Module: Computer Science and Engineering I TDDDA

Code	Title	Level	Type	Credits	Result	Date
TFFY06	Introductory Physics	Bachelor	Course	5.0	4	1983-10-24
TEN1	Examination		Class		4	1983-10-24

Courses

Code	Title	Level	Type	Credits	Result	Date
TGTU30	Environmental Technology	Bachelor	Course	4.0	G	1989-03-17
LAB1	Laboratory		Class		G	1989-03-17
TEN1	Examination		Class		G	1989-03-17
TFFY47	Engineering Mechanics D	Bachelor	Course	4.5	3	1991-08-23
TEN1	Examination		Class		3	1991-08-23
716G18	Horror Fiction	Bachelor	Course	7.5	G	2011-11-04
EXAM	Examination		Class		G	2011-11-04