



1st IMOLA Seminar

Madrid, 4th April
Gerard Leenders

Experiences and lessons learned during the LINE project

1. Goals of LINE project & Results
2. Requirements from European Commission
and how we dealt with them
3. Questions

Objectives-1

- To deliver the next generation EULIS platform which is technologically and financially viable and through which land registry organisations across Europe can provide cross border services.

General Principles and Framework for EULIS 2.0

- No liability issues will be introduced as EULIS 2.0 will still operate on the (same) principle, whereby the platform will not store or change or transfer information. The customer will retrieve information directly from the register of the desired land registry
- It will be designed to facilitate extension with further value adding services
- It will be compliant with the European e-Justice Platform
- It will provide a simple interface for users and connecting countries.
- It will be low maintenance
- It will operate at low cost
- It will be compliant with standards, e.g. ISO standards in relation to how reference material is maintained
- It will be scalable to enable new European Countries to connect and encourage more users
- It will recognise developments in other European initiatives such as INSPIRE
- It will provide management information on the usage of the service
- Current EULIS functionality regarding access, authorisation, charging and billing will remain as is till these functions are implemented in the e-Justice portal.

Objectives-2

- To identify and define a wide-ranging set of land information services and value-added products across Europe for delivery through the European e-Justice portal

Objectives-3

- Manage the technical development. Divided into three main activities: specification, implementation and roll out.
- First the SAD.
- Then phases: EULIS 1.0
EULIS 1.1
EULIS 1.2
EULIS 2.0
- Using: development; acceptance; production

Objectives-4

- Consider impact from external European initiatives on technical specification.

Objectives-4

- Discussion with EU about e-CODEX:
 - E-ID
 - e-Authentication
 - e-Authorisation
 - e-Payment
 - Transliteration
 - e-Justice applications, restrictions, demands (SAD)

Objectives-5

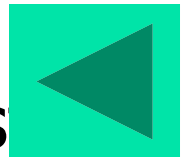
- Define and agree a standard view of the land and property information.
- This is IMOLA project !
- LINE only succeeded in creating 5 standard search templates

Final results

- <http://eulis.eu/>
- <http://service.eulis.eu/eulis20/home>

Extra

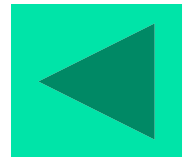
- Analytics
 - Google Analytics
- Awareness
 - Face book page
- Different environments:
 - Development
 - Testing (acceptance)
 - Production
- Release management
- Audit by EU-representative J. Stronkhors



Experiences and lessons learned during the LINE project

2. Requirements from European Commission and how we dealt with them

- Legal aspects (most important: Privacy)
- Liability
- Security
- Interoperability
- Access for citizens
- Meta data



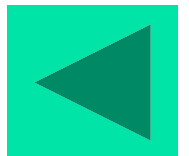
Legal aspects (1)

- Related to privacy
- Data ownership
- Database protection
- Relationship with EEIG
- Organizational aspects (help desk)

Legal aspects (2)

- Directives
- Principles

- Summary of legal aspects

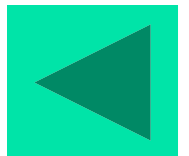


Reference information

- Templates
- Quality assurance
- Maintenance
- Cooperation with ELRA
- [Example](#)

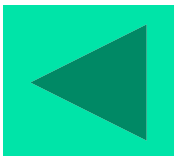
Glossary

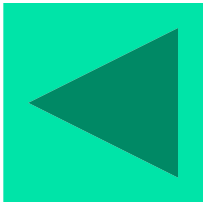
- Templates
- Cooperation with ELRA
- Example



Liability

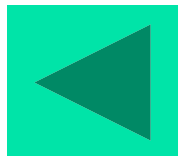
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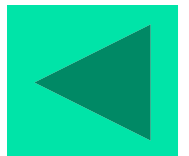
Directives

- EU directive 96/9/EC (db-rights)
- EU directive 95/46 EC (privacy)
 - Art. 7: legitimation to process data
 - Art. 25: "safe harbor" principle
 - Art. 11: obtaining data
 - Art. 26: transferring of data



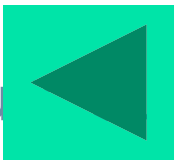
Principles

- Principles for public inspection purposes
- Principles for acquiring cadastral data
- Privacy principles



Public inspection purposes

1. Access to data provided through EULIS can be enforced by a request through national legislation.
2. Access to data provided through EULIS is only provided through object data (e.g., address of property, or property-id).
3. Access to data provided through EULIS is limited to a few properties.
4. Requests for overviews of one single natural person's property are not accepted by EULIS. Individual EULIS members may decide otherwise.
5. Data registered in the LRCs, and accessed through EULIS can be inspected without explanation of the intended use of the data.
6. Identification of the requester is only allowed for feeing purposes.



Acquiring cadastral data (1/4)

1. LRC data can (only) be requested through a special request, accessible through digital means
2. LRC (only) accepts a request for the acquisition and further use of its data when the intended use fulfils LRCs requirements.
3. For feeing purposes, and for the decision to accept a request for acquisition and further use of LRCs data, the request should be accompanied with the identification of the requester

Acquiring cadastral data (2/4)

4. Users can not pass on the provided data to any other parties without prior consent of LRC
5. A monetary payment is required
6. The following liability waiver statement is included in the contract:
LRC would not be liable to the client for any losses that the client or others might incur due to any errors or other shortcomings in the data LRC supplies: LRC is indemnified against claims.
7. The following liability statement is included in the contract: the client is liable to LRC for any losses LRC might incur to a third party through inappropriate use of the data by the client

Acquiring cadastral data (3/4)

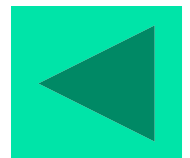
8. The following liability waiver statement is included in the contract:
we would not be liable to the client for any losses that the client or others might incur due to systems for which we are not responsible, and for any kind of faults or changes in the information within these systems after the information has come beyond our reach.



Acquiring cadastral data (4/4)

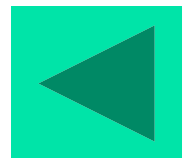
9. Any value-added products that the client develops through use of the data either:
 - Requires our explicit permission prior to dissemination of the value-added products,
 - Vests an ownership interest in LRC, or
 - Requires a royalty payment to LRC
10. LRC data cannot be separated from products that incorporate cadastral data

All these are described in disclaimer



Privacy principles

1. For all requesters EULIS should allow access to its databases only through object data. EULIS does not accept requests from this group for overviews of the property of natural persons.
2. For special user groups EULIS may allow access to its databases through subject data, and /or object data. It leaves it to the individual Consortium Members to decide on the specific groups.
3. EULIS can provide a service through Internet for specific requests.
4. EULIS can show through Internet at least the following data:
address, property information, building information.



Short summary

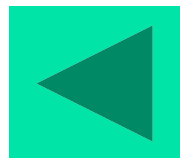
In popular terms:

Any professional user who acquires data through EULIS can get this information without asking for the reason it is needed.

The user is authorized by another country and we accept this as sufficient between each other.

Data may only be acquired by object entry. (changed in time)

Within the portal information will be stored concerning: who has asked which information at what time and what was the price?



Security

- Specifications for registration and authentication, cryptography, organisational controls, personnel and physical matters, operational procedures and business continuity

Certificates

And security issues

- Current certificates can be used.
- Current SSL Certificate Authentication will be used by web services.

Technical overview

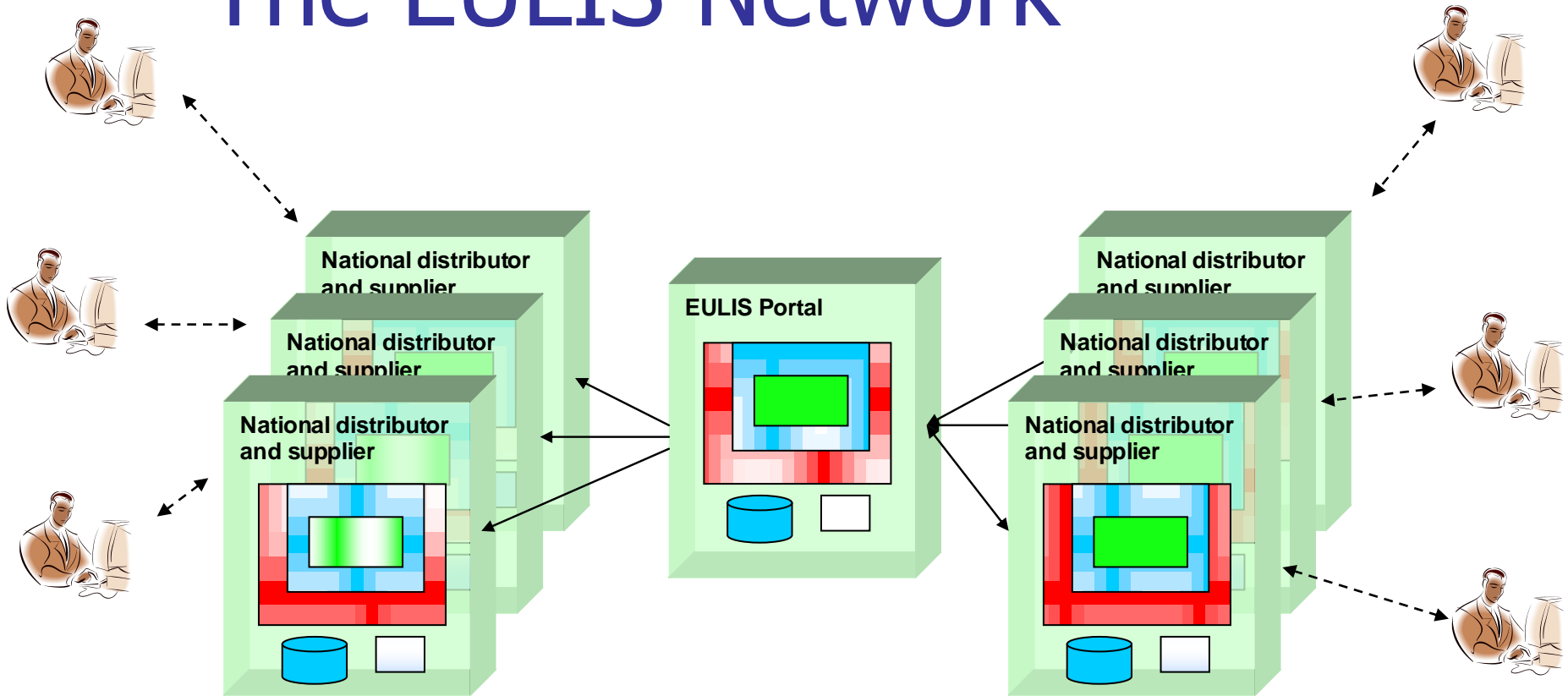
The service is made by using modern portal technique

- possibility to develop the functionality in steps, starting with current national services
- rather easy for new partners to connect to the service
- a minimised functionality in the EULIS application and keeping the critical functionality in the national services, will guarantee the information quality and facilitate an efficient future maintenance

Technical overview

- The portal will contain
 - descriptive information
 - functions for transfer of information needed for charging and billing purposes
- The land and cadastral information itself will remain in the national registers, although presented in the portal
 - The register information presented will be accurate, updated and reliable as in the National Register.

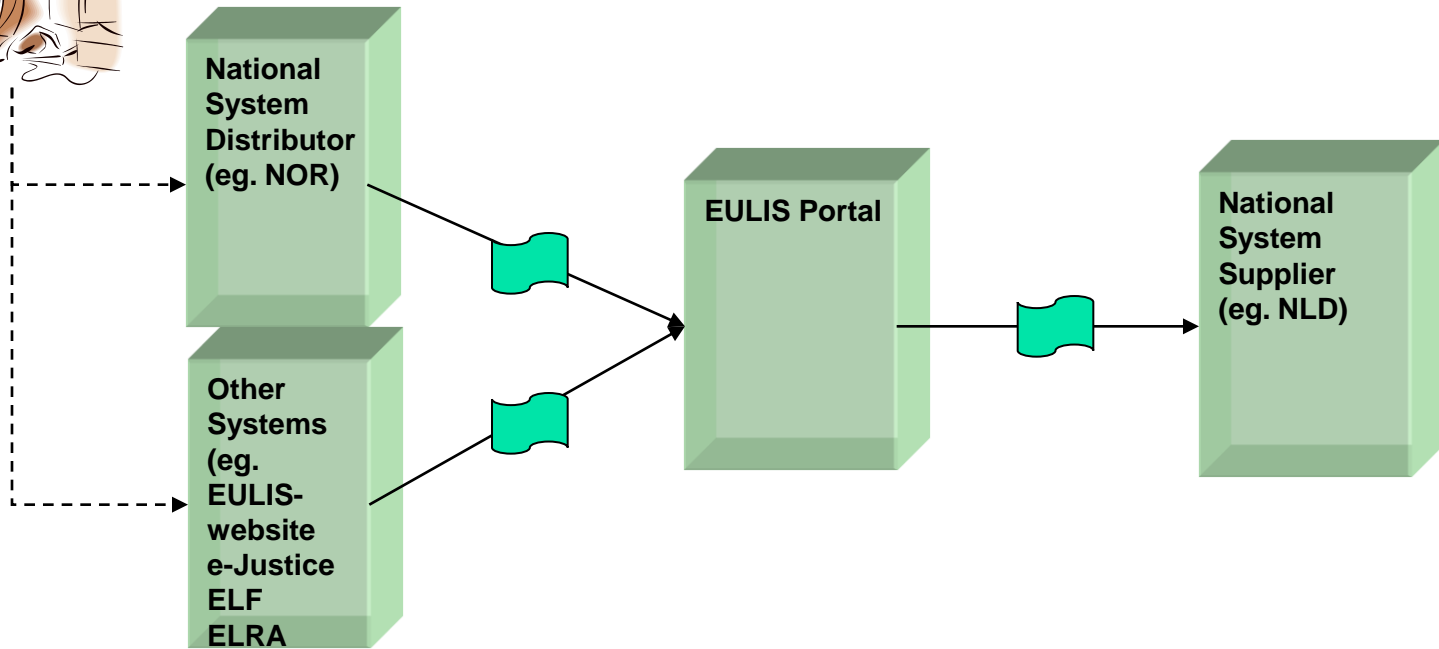
The EULIS Network



The EULIS Network

- EULIS Portal
 - The central portal handling login and accounting transactions
- Distributor
 - Organisation representing the customer towards EULIS.
- Supplier
 - Owns and delivers the information.
- User
 - A person (or system) accessing the information

Login



Content

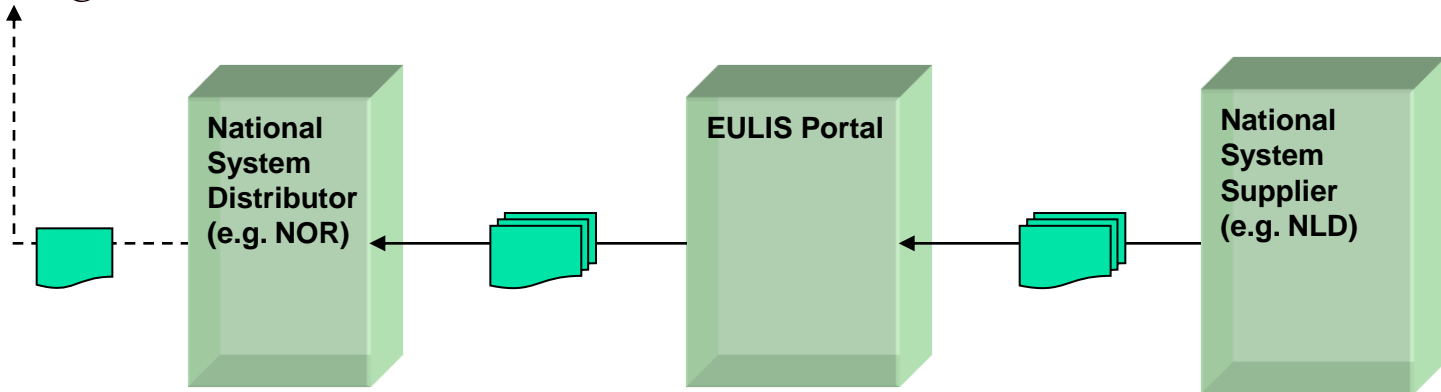
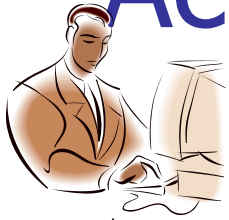


**National
System
Distributor
(eg. NOR)**

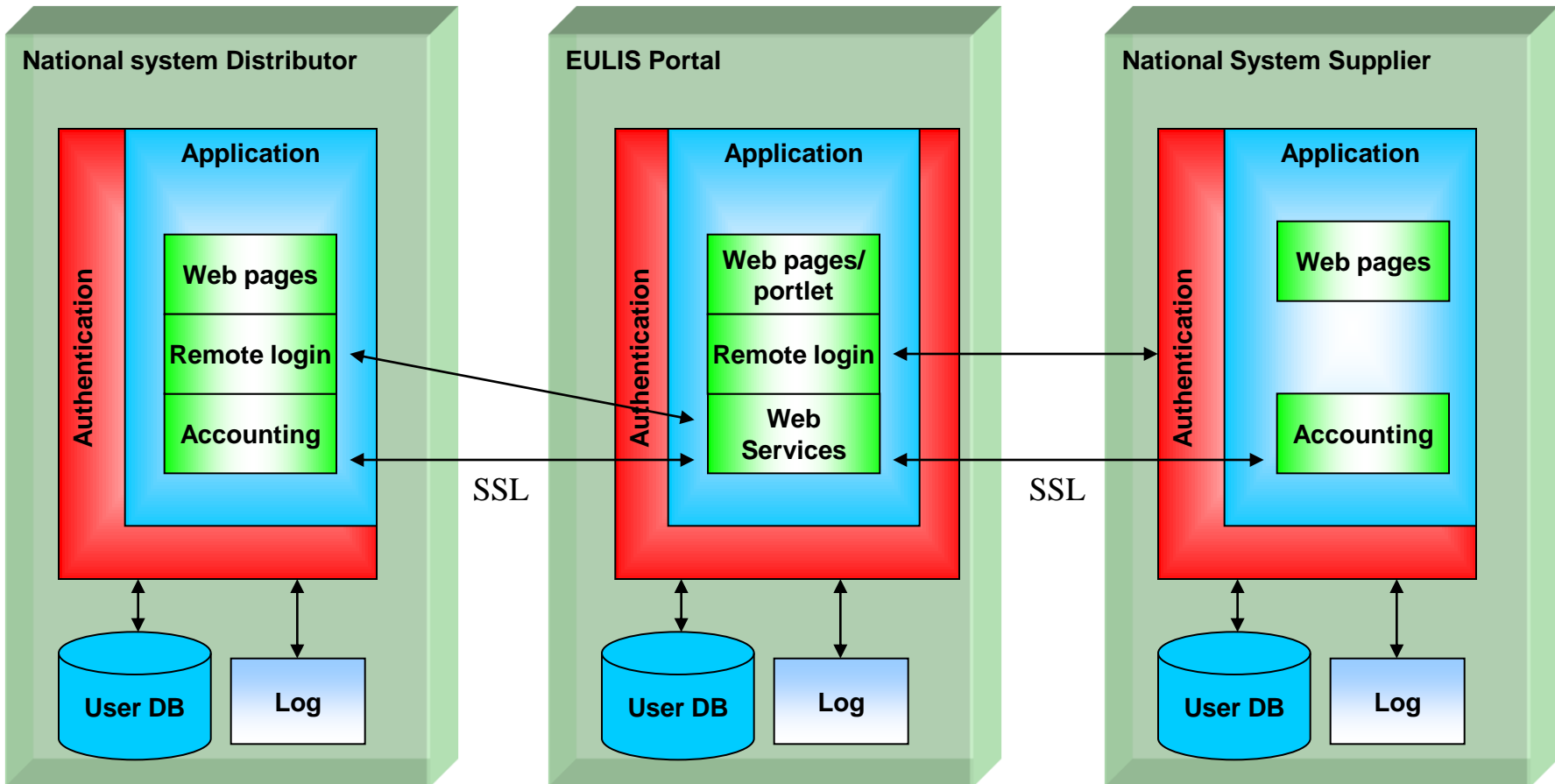
EULIS Portal

**National
System
Supplier
(eg. NLD)**

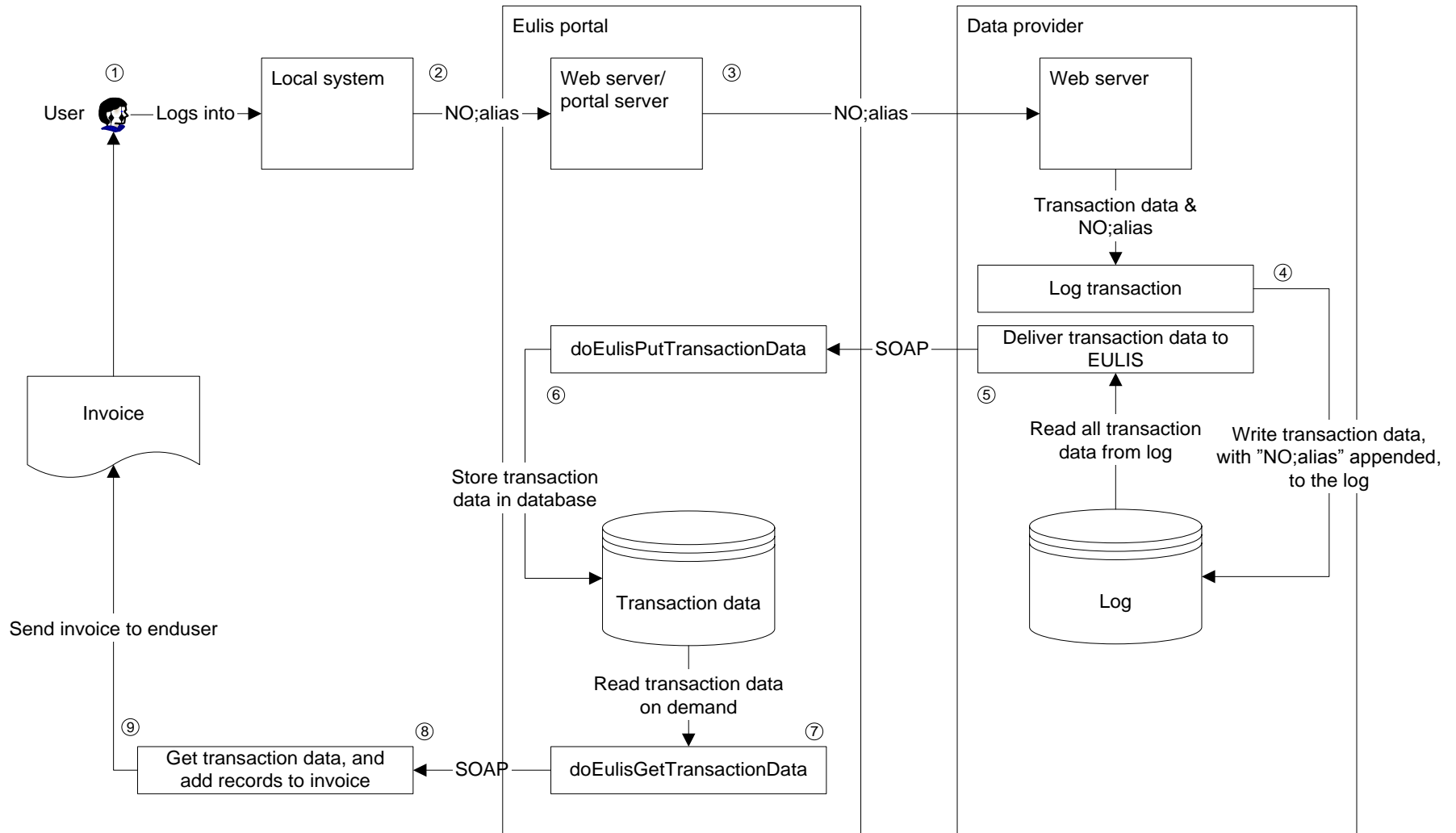
Accounting



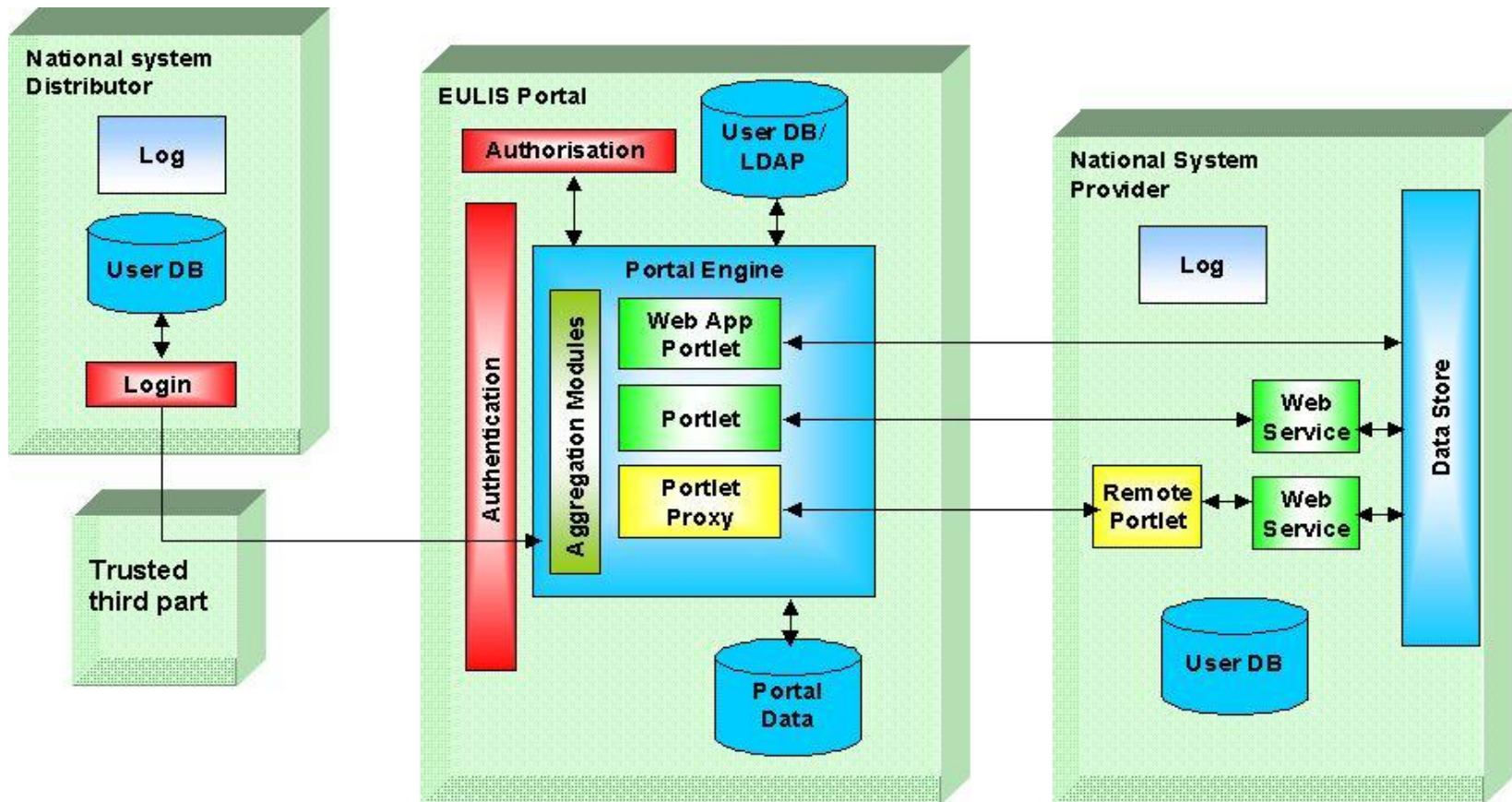
Accounting



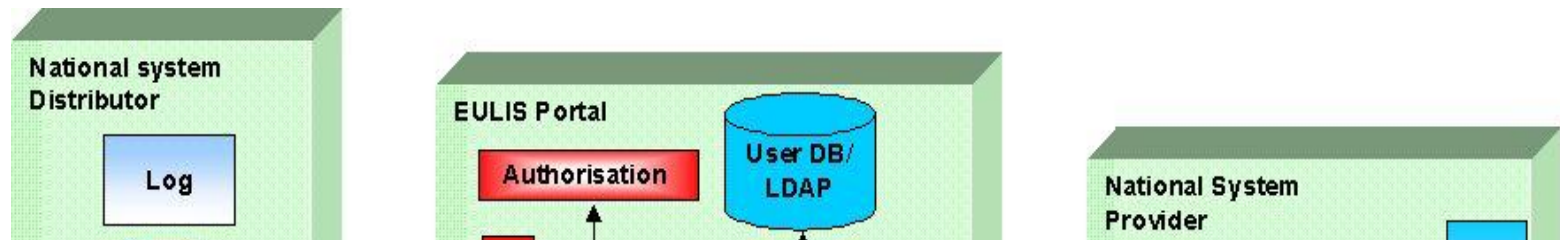
Invoicing



Data storage in LDAP



Data storage in LDAP



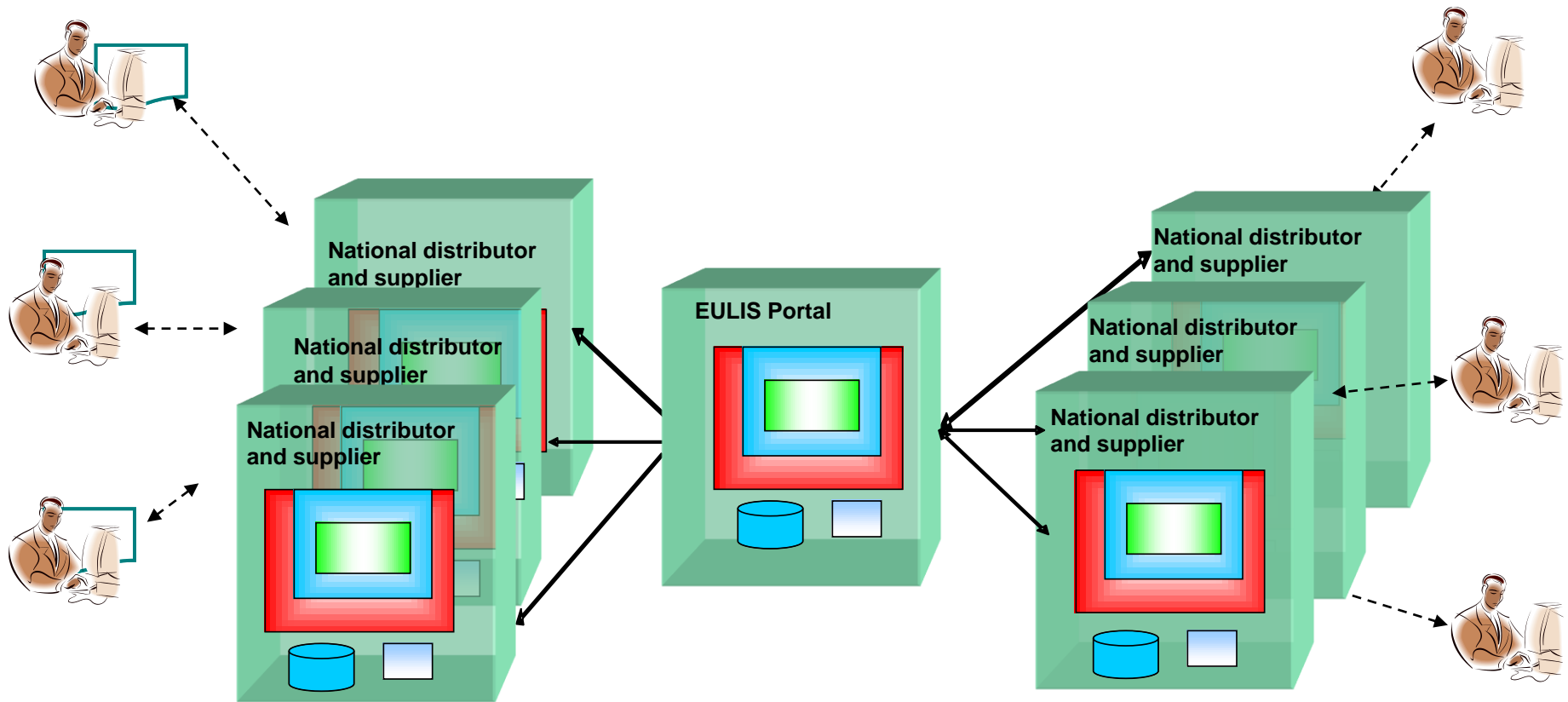
In the LDAP data will be stored for:

- Feeing purposes
- Which country and which user of that country
- what object was chosen
- what information was requested and delivered
- Price and currency

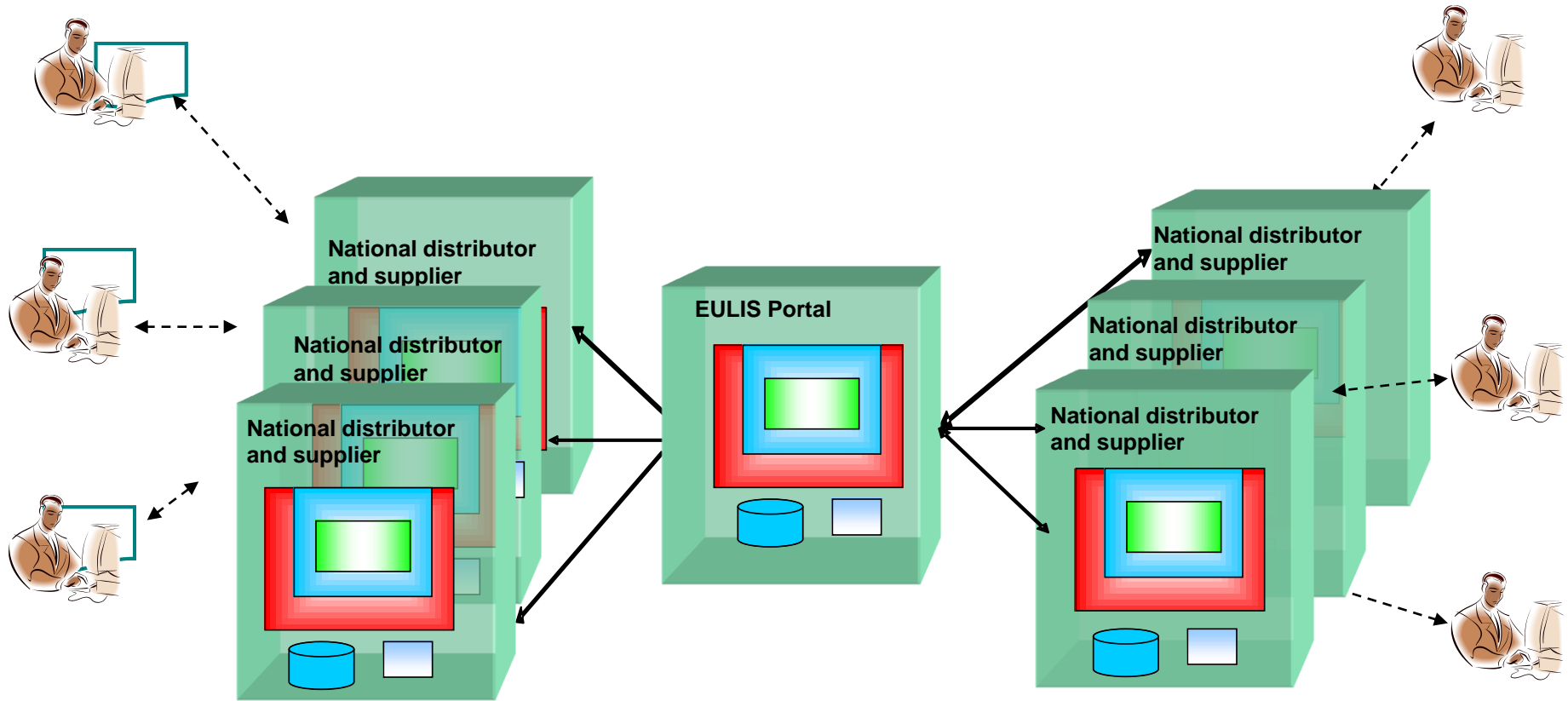
Content data

Name	Description	Format	Example
ProviderCode	Standard code for countries	Max length: 3	ENG
CustomerCode	Standard code for countries	Max length: 3	NOR
CustomerAlias	Identifier of the customer	Max length: 20	12000osl
Service	Name of the service	Max length: 30	Map service
ServiceReference	A reference to the transaction in provider system. Must be unique. Suggest ProviderCode + unique auto number	Max length: 29	ENG102334
CustomerReference	Holds the reference entered by the customer against each request.	Max length: 25	
Price		Format: 10.10	10.10
Currency	Standard currency codes	Max length: 3	GBP
Vat	VAT amount	Format: 2.25	2.25
VatNumber	VAT number for the customer	Max length: 30	12050
Date	Transaction date	Format: 11.12.2003	11.12.2003
Time	Transaction time	Format: 08:11:00	08:11:00

The EULIS Network



Once more: The EULIS Network

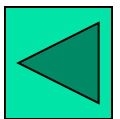


Keywords

- Communication through *https*
- Servers identified by *certificates*
- Data exchange through *XML/SOAP*
- No distribution of user data
- No distributed register data

Website Wiki

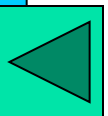
- [Website:](#)



Access for citizens

- Reference information
- Glossary
- Web services to be used by citizens for free
- Depending on the country
- Options: by address (and/or postal code)
by name of owner (person)
by name of owner (company)
by identifier of property
by map

[Example](#)



Questions and discussion

