



UN/LOCODE Reengineering Project Working Report

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Outline

- 1. Background
- 2. General requirements
- 3. Project principles
- 4. Project management
- 5. Accomplishments
- 6. BRA report introduction
- 7. Problems
- 8. Next step



1. Background

- On Oct. 18-19 2018, at the Second Annual Meeting of the UN/LOCODE Advisory Group meeting (Hangzhou)
 - CNIS volunteered to provide resources for the reengineering
 - Recorded in the conference report (ECE_TRADE_C_CEFACCT_2019_023E)
- In April 2019, reported to UN/CEFACT Plenary (item 9 in the agenda)
- In July 2019, CNIS received the Terms of Reference document
- On July 25, 2019, CNIS held the kickoff meeting of the reengineering project.



2. General requirements

- Dramatic increase of number of entries in the UNLOCODE directory.
 - From 8,000 to 100,000.
- Outdated system support for maintenance
 - Developed about 20 years ago.
 - Separate back-end-system and front-end-system
 - Lack of data quality check (GPS co-or., code duplications, etc.)
 - Access security, performance, compatibility and disaster recovery features



2. General requirements

- User inconveniences
 - UN/LOCODE covers 80%+ UNECE total visits
 - Lack of online searching by multiple criteria
 - Some users hope to be provided with an API.
- Changes in the revision of rec.16
 - Geographical coordinates
 - Possible changes in the definitions of status codes
 - Automatic generation of publication date
- Collaborated validation process
 - With FPs, experts, submitters



3. Principles for the project

- Addressing the need
 - The requirements above
- Conformance to UN/ECE policy
 - An adequate understanding of the nature of UN/ECE, thus its policies regarding IT management
- Independent system
 - The system shall be independent of any external systems, e.g. licenses free, ready to switch to other relying-on components.

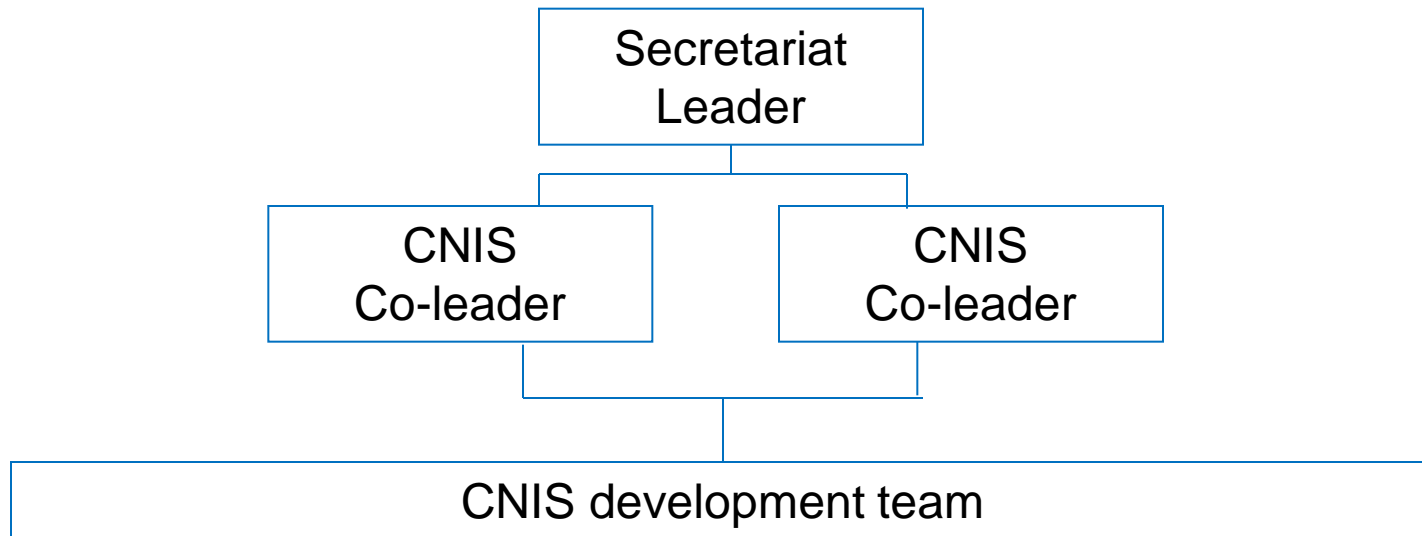


3. Principles for the project

- Collaboration
 - The system will be developed by the CNIS development team, and is collaborated with UN/LOCODE experts, focal points, submitters, especially at the BRA stage.
- Openness
 - Documents, status, open in CUE
- Continued improvement
 - The system will be continuously improved at the system maintenance stage.

4. Project management

- Organization





4. Project management

- Communication

- Meetings

- Kick off meeting in July 25
- Once in two weeks, totally 8 online meetings
- Development team internal discussions, F2F meetings.

- Wechat

- Mostly development team internal discussion, convening a meeting, exchange of information, etc.

- Emails

- Mostly submission of draft versions of report, and other more formal communications



4. Project management

- Documentation
 - Naming rules for document was decided.
 - The Draft *Business requirement analysis for UN/LOCODE Re-engineering Project (URP)* is the major document and other documents were under development and can not be opened yet.
 - It was agreed that to use the Bitbucket for document storing and code collaboration.



5. Accomplishments

- Studying the R.16, and the draft revised version.
 - The Chinese translation, the comparison, etc.
- Learning of Maintenance meeting practices.
 - Attending the online meetings
- Learning practices of focal points
 - China National focal point
- Be familiar with the old system

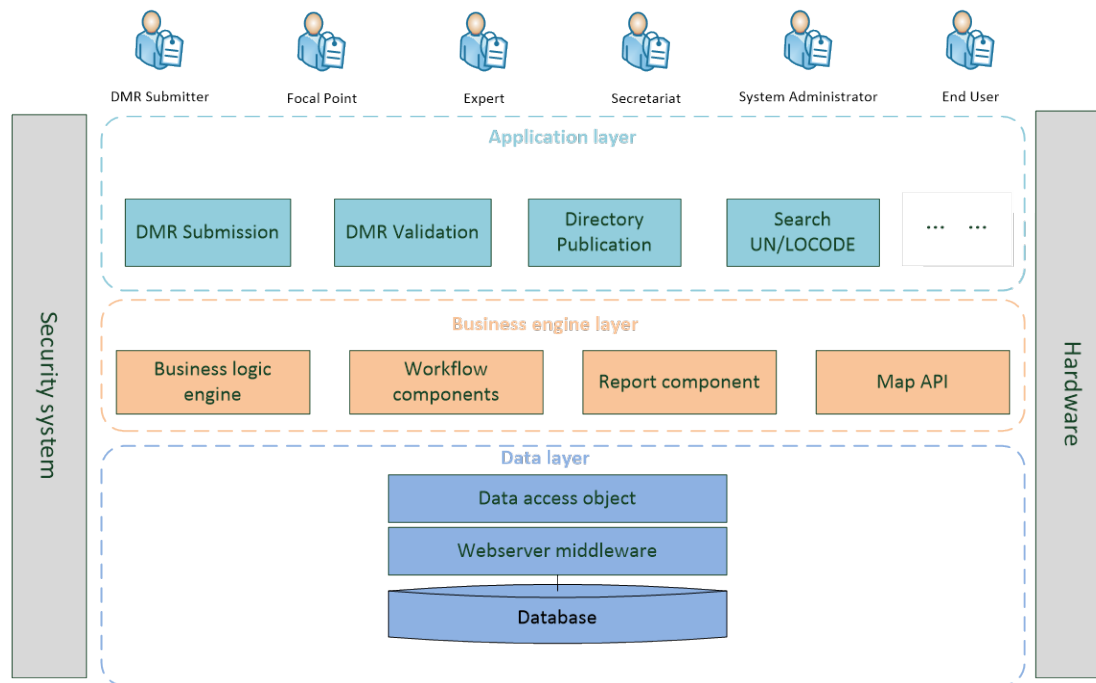


5. Accomplishments

- Learning of the ESRI online map
- Learning of UN/ECE system dev. policies
 - Licensing, system deployment, etc.
- Research on special issues
 - ISO 3166 interface
 - Password policies
 - Backup policies
 - The mechanism for dealing with problems of concurrent sessions
 - Interface on Mobile devices
 - Database selection

6. The draft report introduction

■ 6.1 Overview



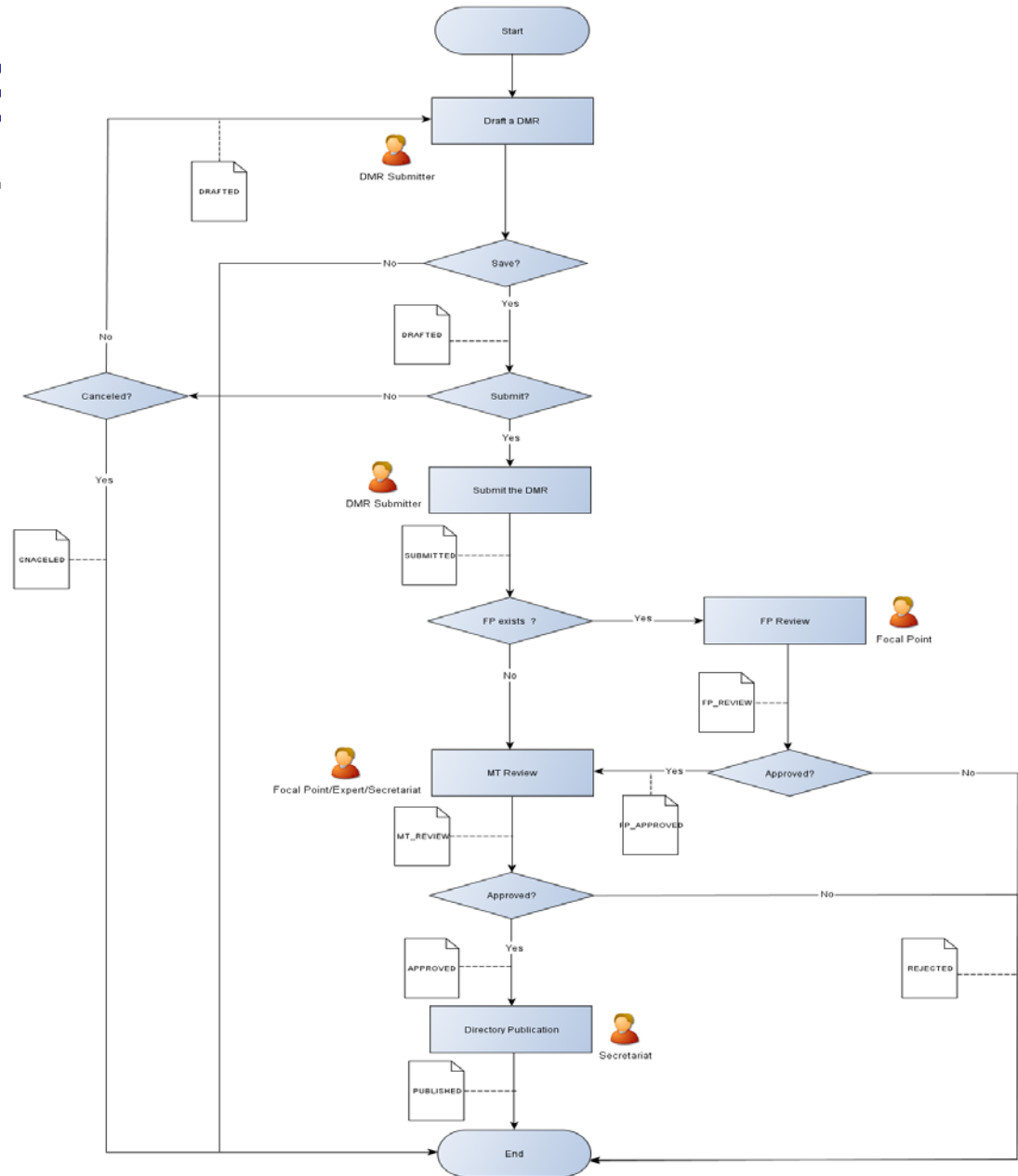


6.The draft report introduction

- 6.2 Features
 - An integrated system
 - Mainstream technologies
 - Free of risk on licenses
 - Efficient access to external data
 - Management flexibility
 - Easy to use
 - Expandibility

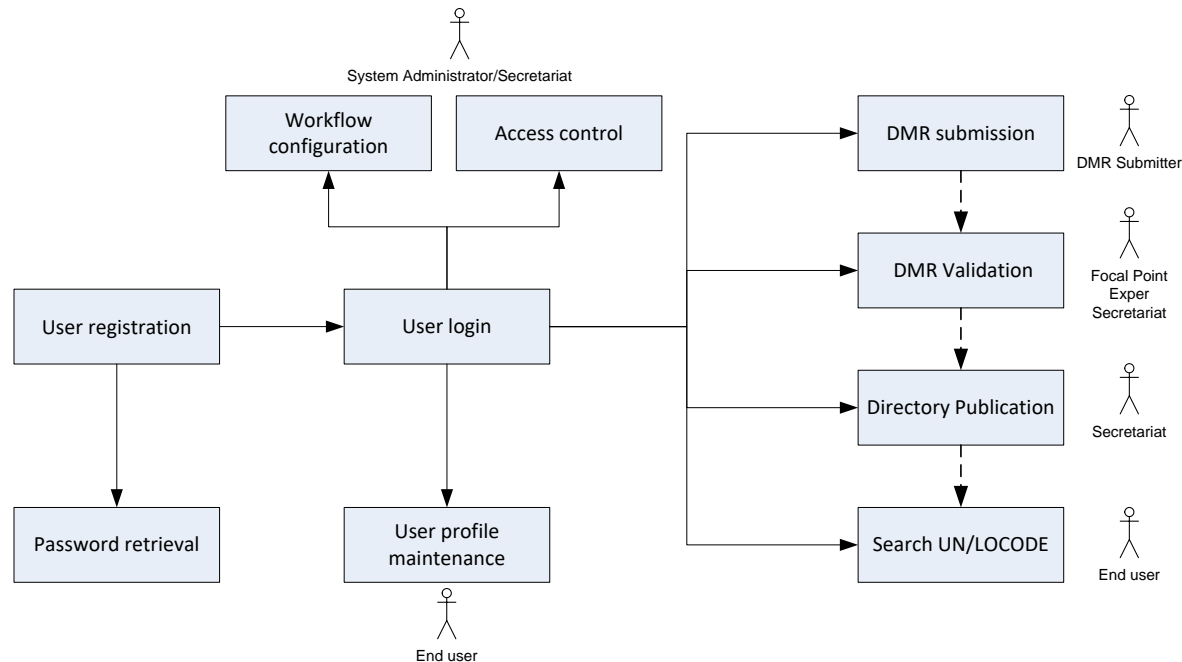
6. The dra

- 6.3 Core Business about DMR process



6. The draft report introduction

■ 6.4 Use cases



6. The draft report introduction

6.5 Interface

UNECE UN/LOCODE

UNECE UN/LOCODE

UNECE UN/LOCODE

- DMR Submitter
 - Addition Request
 - Modification Request
 - Deletion Request
- Focal Point
 - DMR Validation
- Expert
 - DMR Validation
- Secretariat
 - DMR Validation
 - Directory Publication
 - Workflow Configuration
- My Profile
 - Sign Out

570
Total F

100
Approv

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About Team Contact

UNECE UN/LOCODE Hi, Nick Today: Nov 18

DMR Submitter - Addition Request

DMR Submitter

- Addition Request
- Modification Request
- Deletion Request

Focal Point

- DMR Validation

Expert

- DMR Validation

Secretariat

- DMR Validation
- Directory Publication
- Workflow Configuration

My Profile

- Sign Out

Addition Request

Country name*: SWITZERLAND [CH]

Subdivision*: Aargau [CH-AG]

Location code*: CH FIS

Sorry, that Location code is taken. Try another?
25 alphabets (not case sensitive) and number 2-9

Location name*: Fisibach

only characters adopted in the Rec. 16.

Functions*:
 1 Maritime transport
 2 Rail transport
 3 Road transport
 4 Air transport or Space transport
 5 International Mail Processing Centre recognized by Universal Postal Union (IUPU)
 6 Multimodal transport facility
 7 Fixed Transport Installation
 8 Inland water transport

Coordinates*:
Latitude(dddmmN or S)
Longitude(dddmmE or W)
ddd-degrees (00 to 90), ddd-degrees (000 to 180), mm-minutes (00 to 59)

Find in Map [Launch google map for find](#)

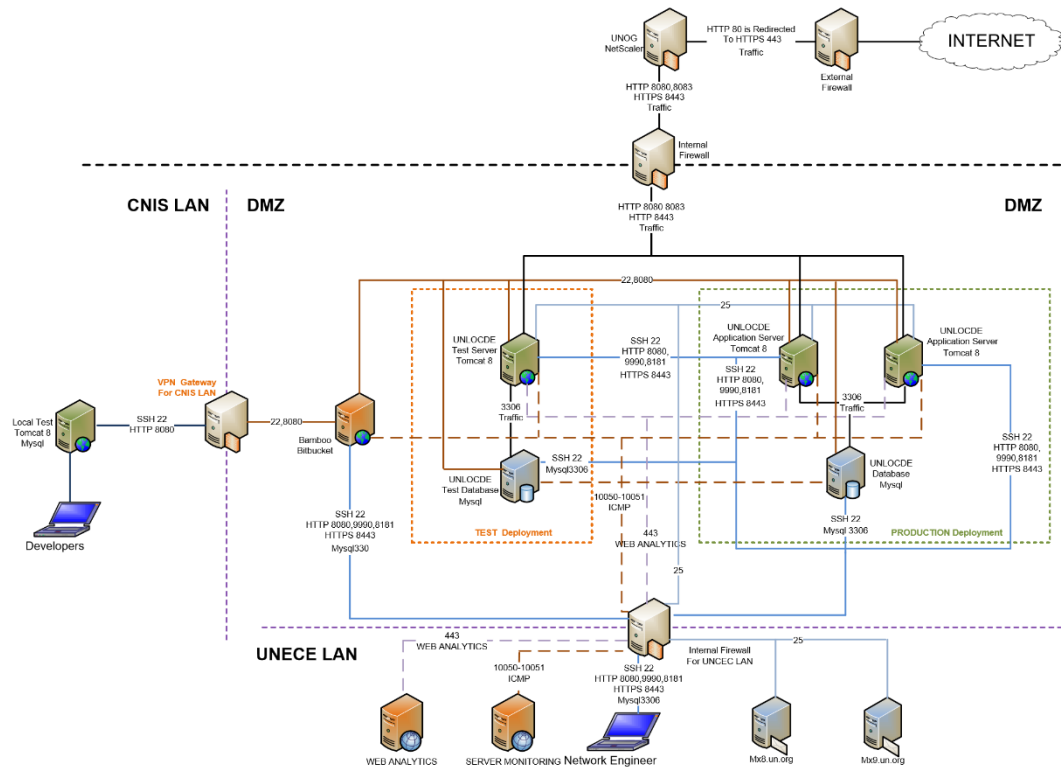
Submit Save Cancel

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About Team Contact

6. The draft report introduction

■ 6.6 Deployment





7.Problems

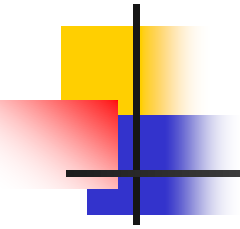
- Language
- “A tale of two cities”
- Time difference



8. Next step

Finalization before the end of January

- Improvements of the use case analysis
- A draft system design
 - Interfaces operations, draft prototype
- Decisions on external APIs, components, etc.
- Decisions on Deployment issues



Thank you!