Outline

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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_CEFACT_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- Outdated system support for maintenance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**

- Secretariat Leader
  - CNIS Co-leader
  - CNIS Co-leader
  - CNIS development team
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 draft report introduction

6.3 Core Business about DMR process
6. The draft report introduction

- 6.4 Use cases
6. The draft report introduction

6.5 Interfaces
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!