TDS-Curator

DANS

MPI for Psycholinguistics

Utrecht Institute of Linguistics OTS
The Typological Database System (TDS) currently provides integrated access to multiple independently developed typological databases through a common web interface. While the system is currently operational, TDS Curator will make the TDS into a sustainable service that conforms to CLARIN infrastructural requirements.
Current TDS architecture

- **Importing**
- **Transforming**
- **Merging**
- **Enriching**

**Querying**

**Navigating and searching**

**Reasoning**

**Offline**
- **DTL engine**
  - Importing
  - Transforming
  - Merging
  - Enriching

**Online**
- **Navigating and searching**
- **No web services**

**Global**
- **Domain ontology**
- **DTL specifications**
- **Meta data**

**Local**
- **DTL specifications**
- **Project internal**
- **Propriety format**

**TDS Workbench**
- **Topik taxonomy**
- **Project taxonomy**
- **Propriety format**
- **Component databases**
Integrated Data and Documentation Format (IDDF)

- No open/standard data format that is semantically rich enough to replace the TDS propriety format
  - CSV: too generic, one table only
  - SQL: too generic, only data no documentation
  - XML: too generic, which vocabulary?
    - Data focus: CSV XML-derivative, SQL dump XML-derivative, ...
    - Model focus: CSDL derivative, ...
    - Documentation focus: ODD derivative, ...
- IDDF:
  - Data: semi-structured hierarchical units
  - Documentation: extensive documentation of data elements and values
  - Model: network close to the conceptual schema
Work packages

• Core component: TDS-IDDF
• Core component: TDS-WS
• Application: TDS-GUI
• Documentation & reporting
• Hosting at CLARIN centre: DANS
• Relationship with ISOcat
TDS-Curator architecture

Navigating and searching
Querying
Reasoning

Web services

IDDF

Offline
Importing
Transforming
Merging
Enriching

Online

Global domain
Local DTL specifications
ISOcat

Topic taxonomy
Topic taxonomy

TDS Workbench

Meta data
Component databases
DTL engine

Web services
TDS-Curator architecture

- Importing
- Transforming
- Merging
- Enriching
- Querying
- Navigating and searching
- Reasoning

Online:
- User interface
- Web services

Offline:
- DTL engine
- Component databases

Global domain ontology
- Local DTL specifications
- Topic taxonomy
- Meta data

DTL engine:
- Importing
- Transforming
- Merging
- Enriching

TDS Workbench

Universiteit Utrecht

DANS
Planning

• Due to obligations TDS Curator starts later
• Kickstart: April - May
• Core development: June – November