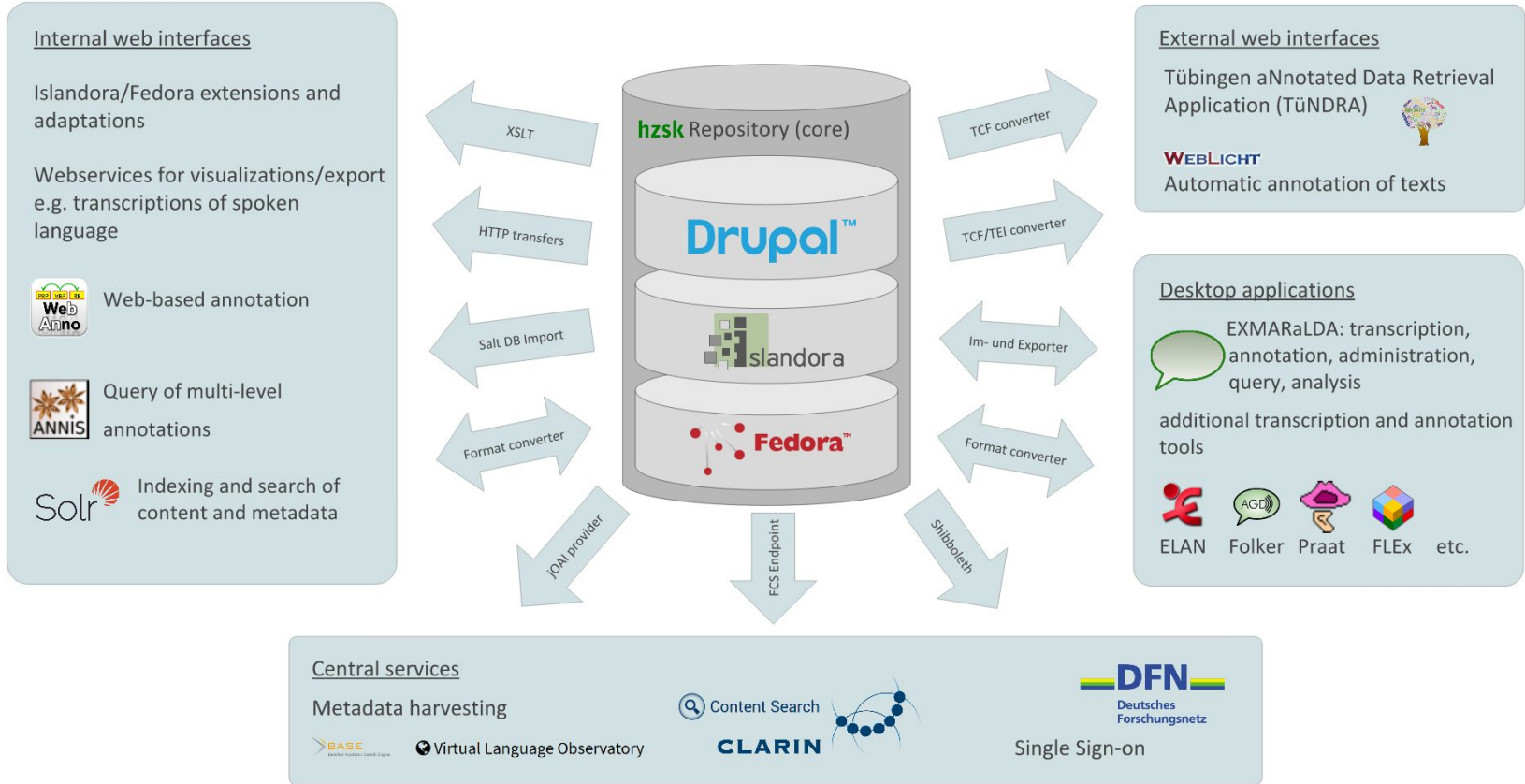
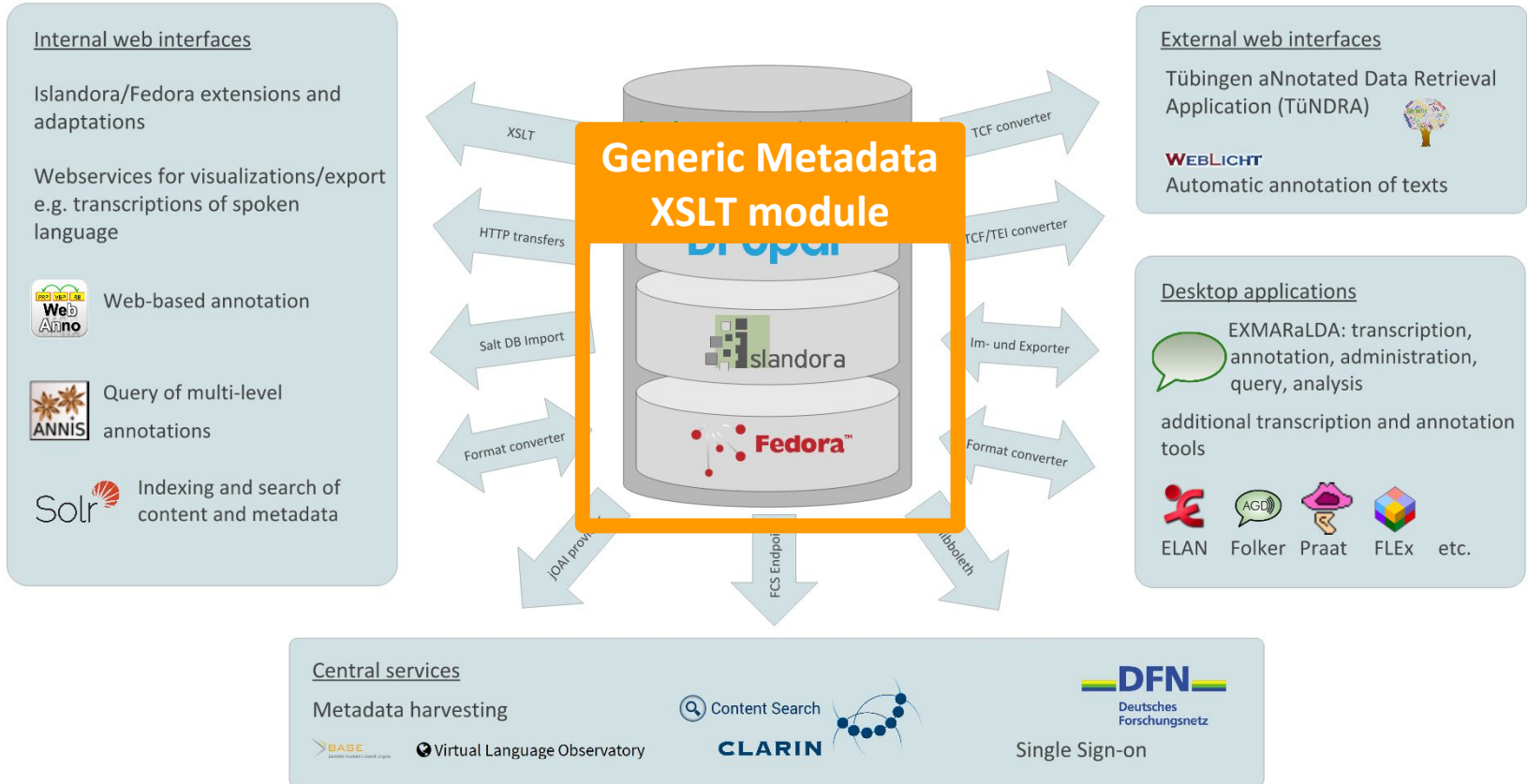


Fedora in the HZSK Infrastructure

Fedora Users Group Meeting, Hamburg, 07.12.2017

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Hamburger Zentrum für Sprachkorpora, HZSK
Universität Hamburg/Germany







Customizable XSLT transformation

XML source created in module

```
// create XML input for XSLT transformation
$xml = '<results
  for="'. $fedoraIdentifier. '" roles="'. $drupalRoles. '"
  user="'. $drupalUserID. '" lang="'. $drupalLanguage. '"
  dssid="'. $drupalUserSecureSessionID. '">'. "\n";
foreach($associated_objects_array as $associated_object){
  $xml .= '
  <result>
    <title>
      '. $associated_object['dc_array']['dc:title']['value']. '
    </title>
    <description>
      '. $associated_object['dc_array']['dc:description']['value']. '
    </description>
    <identifier>
      '. $associated_object['dc_array']['dc:identifier']['value']. '
    </identifier>
  </result>';
}
$xml .= '</results>';
```



Customizable XSLT transformation

Configuration for HZSK Repository - hzsk:config

	Label	Type	Mime type	Size	Versions	Operations
general-functions-variables.xsl	XSLT containing general stuff (to be imported by other XSLT)	Managed	text/xml	37.09 KiB	17	replace download delete
config-params.xml	Configuration file for display of digital objects	Managed	text/xml	13.76 KiB	26	replace download delete
corpus-default.xsl	Default XSLT stylesheet for corpora	Managed	text/xml	27.34 KiB	54	replace download delete

EXMARaLDA Demo corpus - spoken-corpus:demo

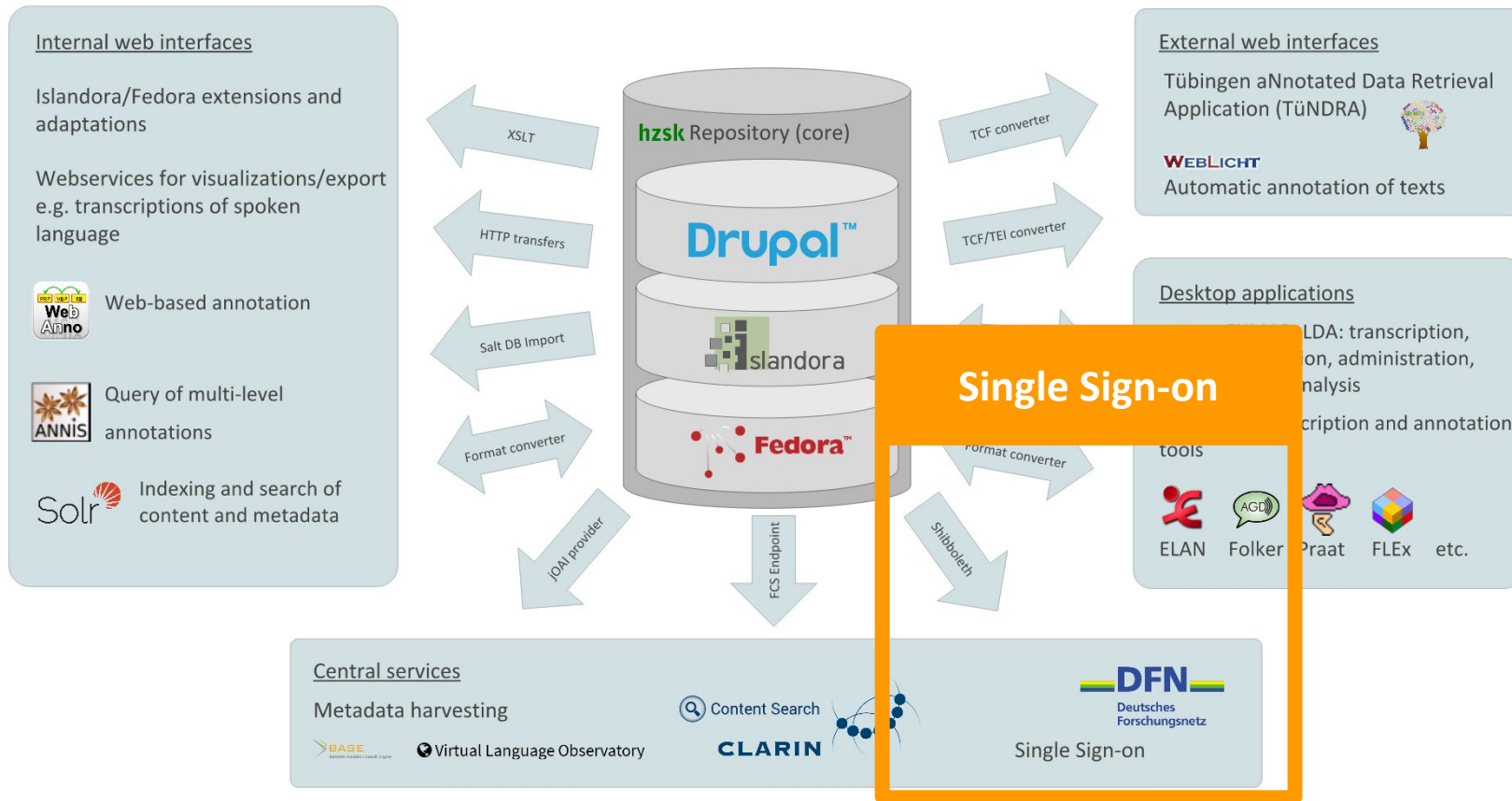
ID	Label	Type	Mime type	Size	Versions	Operations
XSL	XSLT stylesheet for collection display	Inline XML	text/xml	219 B	139	replace download delete
CMDI	CMDI metadata for spoken corpus collection	Managed	text/xml	31.72 KiB	Not Versioned	replace download delete
HTML-DESC	Description of EXMARaLDA Demo Corpus (HTML)	Inline XML	text/html	1.25 KiB	16	replace download delete
HTML-VIEW	Content overview for EXMARaLDA Demo Corpus (HTML)	Inline XML	text/html	173.08 KiB	28	replace download delete

Some content pre-processed



Why implemented like this?

- similar collections but specific display requirements (spoken corpora, text corpora, treebanks, other types)
- allow data depositors to provide own styles (custom XSLT)
- influenced by Islandora's COLLECTION_VIEW datastream
- personal preference for XSLT, heavy use of modularization (overwriting defaults)

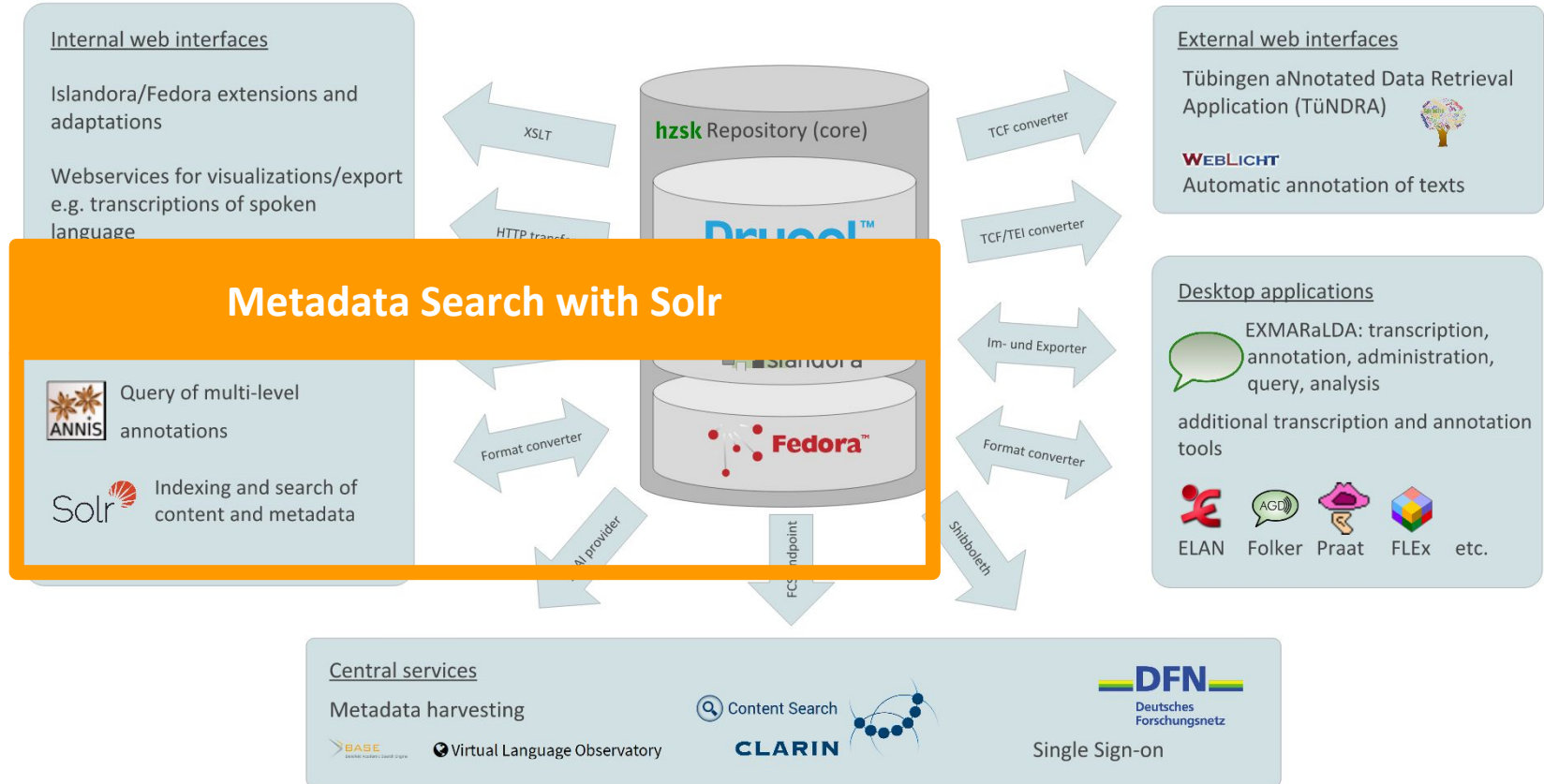


Background

- Authentication of users outsourced to IdPs (CLARIN IdP as home of the homeless)
→ Drupal accounts still created in background by Shibboleth module
- Authorization (access to resources) determined by role assignment (and **XACML policies**)

Authorization process

- (a) Login via Shibboleth
- (b) PUB & ACA resources available to users entitled “academic”
→ RES requires sending access form
- (c) Corpus-specific role assigned to user after approval



Background

Facet search needed so that users can find relevant resources in repository

Implementation

- Java webservice for indexing metadata with Solr 5.0.0 (using RISEarch to find datastreams, and SolrJ client)
- Drupal page (redirected to from islandora:root) reads from Solr and displays facet search with formatted results
- three-level sorting: (a) access, (b) display priority in config, (c) a-z

Home » HZSK Repository

Digital Repository for Linguistic Resources and Tools

The digital repository of the Hamburger Zentrum für Sprachkorpora stores and disseminates linguistic resources. [access and license restrictions](#), [privacy policy](#), [hosting requirements](#)

Corpus Type	License type	Modality	Language	Keyword
general corpus (1)	academic (2)	written (3)	German (3)	EXMARaLDA (1)
learner corpus (1)	restricted (1)		English (1)	Erwerb der Wissenschaftssprache (1)
treebank (1)			Latin (1)	L1 data (1)
			Old Swedish (1)	L1-Daten (1)
			Swedish (1)	L2 data (1)
			...	

Searched: written ^x

Hits: 3

Hamburg Dependency Treebank

The Hamburg Dependency Treebank is to our knowledge the largest dependency treebank. It contains a large number of German sentences which have not been transformed from phrase structures.

Language: German

Fedora 4: Linked Data

Link metadata, catalogues and content (internally & externally)

Home » HZSK Repository

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Search: Filter

Corpus Type	License type	Modality	Language	Keyword
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			Swedish (1)	L2 data (1)

Searched: written^x

Hits: 3

Hamburg Dependency Treebank

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Language: German

INEL Resource Catalogue

Items Persons Languages Archives

Manage items

Add item

Search: # Global

CSV Excel

Display columns (40/40)

ID	(orig) Title	(eng) Title	(deu) Title	(rus) Title	Type	Collection Ref.	(eng) Description	(deu) Description	(rus) Description
AA_1914_Brothers_Ifk		Brothers			Item		fairytale	Märchen	Сказка
AA_1914_Corps_Ifk		Corpse			Item		fairytale	Märchen	Сказка
AA_1914_Girl_Ifk		Girl			Item		fairytale	Märchen	Сказка

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patronymname_rus:A firstname_eng:D patronymname_eng:A id:BDA