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CLARIN Federated Content Search 2.0 – state of the union

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This presentation covers

- ▶ The uptake of the new major release of the CLARIN federated content search, CLARIN-FCS 2.0, that brought groundbreaking new features and capabilities to the linguistic search of corpora.
- ▶ The new proposal for accessing restricted resources.
- ▶ The upgrade/replacement of internal core in the dropwizard framework
- ▶ UI changes
- ▶ Threats

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- ▶ The CLARIN-FCS version 2.0 final specification has been out for three years
- ▶ The Aggregator has been supporting FCS v2.0 for almost 4 years
- ▶ In the last year we have gone from 77 to around 90 collections
- ▶ (cf roughly 1150 to 1235 collections for FCS 1 or legacy)

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The CLARIN Federated Content Search (CLARIN-FCS) introduces an *interface specification* that decouples the *search engine* functionality from its *exploitation*, i.e. user-interfaces, third-party applications, to allow services to access heterogeneous search engines in a uniform way.

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This means the CLARIN-FCS is augmenting your search engine – not replacing it. And by still keeping a low threshold version 2.0 introduces a few important new features:

- ▶ A new Query Language
- ▶ A matching display of query results, the *AdvancedDataView, ADV*, with layer capabilities
- ▶ Backwards compatibility to earlier versions

These new additions to the CLARIN-FCS will not only enhance the power user experience and possibilities when performing queries from repositories, but also that less experienced users will find it easier to explore different corpora.

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- ▶ Authentication via JWT (JSON web token)
- ▶ Adding dedicated element to EndpointDescription
- ▶ Adding diagnostics
- ▶ Adding tests

We will hear more from Gregor Middell about the BBAW attempt on doing the authentication

Suggested EndpointDescription addition (updated)

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```
<Resources>
  <Resource>
    ...
    <Languages>
      <Language>swe</Language>
      <Language>deu</Language>
    </Languages>
    <AvailabilityRestriction>
      <RestrictionRequirement>requirementName</RestrictionRequirement>
    ...
  </AvailabilityRestriction>
  ...
</Resource>
</Resources>
```

Figure: Suggested AvailabilityRestriction addition (in red) for CLARIN-FCS 2.0

Suggested Endpoint Description addition (description, updated)

- ▶ The text node *requirementName* in *RestrictionRequirement* is either of {authOnly, personalIdentifier}.
- ▶ PersonalIdentifier for Shibboleth comes from a mapping of eduPersonPrincipalName or eduPersonTargetedID or email to “userID”. “userID” is then passed to the endpoint.
- ▶ If you define the *AvailabilityRestriction* in the top-level *Resource* element the restriction will be valid for the complete tree hierarchy of *Resource* elements.
- ▶ From the backwards compatibility perspective this means that if you do not define the *AvailabilityRestriction* element all resources will be available for searching through the endpoint as expected.

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- ▶ Has been an ongoing chase of replacing dependencies for dropwizard 1.0
- ▶ Going to dropwizard 2 requires extensive rework of internals (Willem finally took on the task)
- ▶ Still need more tests

TEXT UI changes

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- ▶ Adding autocompletion where possible in textbased FCS-QL
- ▶ Adding authentication for restricted resources
- ▶ Making some things more smooth

TEXT Other changes

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- ▶ Extending grammar with changes for the syntactic search capability
- ▶ Aggregation examples
- ▶ Upgrading further libraries

Going forward and still keeping backwards compatibility

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- ▶ Even with the new features of version 2.0 the threshold to participate is still low. The backwards compatibility gives you as a Centre a smooth transition to the new features and capabilities at your own convenience.
- ▶ Addition of access to restricted resources (very few plan to do it, but uptake might increase)
- ▶ Slow uptake

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Altogether, we see CLARIN-FCS 2.0 as an easy to use, easy to maintain, federated search that will make the language resource exploration more open to everyone, no matter if you are a power or less experienced user, or a resource provider.

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With this strong foundation of The Aggregator and ADV laid in CLARIN-FCS 2.0, we can now develop the ways to formulate and present queries and their results, making a good foundation for addressing the presentation of hierarchical data ,e.g. syntactic search, and use of additional layers, e.g. named entities.

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The future development of CLARIN-FCS will be guided by popularity of the features and the cost of participation. We will try to keep CLARIN-FCS open to as many users and language repository providers as possible.

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This is where your center can **contribute to the uptake of FCS 2.0**, adapting endpoints to your search engines, bringing more users to your resources by taking part in the federated content search.

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((End of part 1))

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