

# **How can the DDI community take advantage of the native XML database eXist-db**

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# New features in eXist since IASSIST

- 1.4.1
  - Better Referential Integrity, revised Database Shutdown and Crash Protection, new WebDAV implementation based on the Milton WebDAV library. The Lucene Full-Text Indexing has been made more robust and performant. It now also includes configurable analyzers and parameters, better match highlighting and additional functions for working with Lucene document fields. The betterFORM server-side XForms 1.1 engine is integrated and **enabled by default**.

# New features in eXist since IASSIST

- 1.5
  - Lucene indexing of binary files, e.g. pdf
  - eXide editing, app development, package management (xar archives) and repository installation (hot deploy) of these packages
  - svn extension, working copy in db etc
  - new authentication and access restriction model, allowing openid, oauth, ldap etc
  - Some XQuery 3 functions e.g. switch, try/catch, hof

Will be released as new stable release 1.6 in beginning of 2012.

# OAI-PMH

- Provider
  - configuration per datatype available e.g. ddi, cmdi, meta-share etc
- Harvester

## Next steps

- Package as apps

# DDI Stylesheets

## News in the DDI 3.1 stylesheet

- Translatable labels (re-use from icpsr stylesheet)
- Support for more elements

## To do:

- Better navigation (javascript)
- More parameters for different types of views
- Separation of the stylesheet

More info and download:

<https://code.google.com/p/ddixslt>

# Call for stylesheets for DDI

Need for stylesheets for DDI

Suggestions:

- Community developed stylesheets for DDI as a package on the alliance website?
- Official stylesheets for extraction / mapping of metadata to other formats from DDI?

# DDI3 based catalogue and Question Bank

Interface for search in questions, studies and variables based on a DDI3 collection

## Technical

- frontend jQuery
- backend in xQuery
- Lucene index



The screenshot displays a search interface for a DDI3 collection. At the top, there is a search bar containing the text 'school', a dropdown menu set to 'All', and a 'Search' button. Below the search bar is a link for 'Advanced search'. The main content area shows three tabs: 'Questions (154)', 'Studies (29)', and 'Variables'. A pagination bar indicates the current page is 8 out of 16, with buttons for 'Prev', 'Next', and numbered pages. The search results are displayed in a list format, each with a country flag, a title, and a description. The first result is for Sweden, titled 'På min arbetsplats/skola' (At my work place/school), with a 'show studies' link below it. The second result is also for Sweden, titled 'Införa betyg i skolan tidigare än idag' (Introduce reports with grades for school pupils at an earlier age than is the case today), with a sub-entry '13L Swedish election study 2002'. The third result is for Sweden, titled 'Kommunal grundskola' (Municipal primary school).

Demo:

<http://snd.gu.se/qb>

# xForms and DDI

## Why xForms?

- Supports forms with complex logic – declarative markup
- Validates form data and gives immediate feedback
- Is XML – an XML-application
- Is device independent
- Is internationalization and accessibility ready



# Future plans for ddi-eXist

- Downloadable package from the repository
- Full featured services for search, filtering and indexing of DDI instances
- Better user interface for the question bank / catalouge
- More exports to other metadata formats

**Questions?**