

Virtual Infrastructure with Database as a Service (VIDaaS) Project – Future development

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Virtual Infrastructure with
Database as a Service (VIDaaS)



UNIVERSITY OF
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Looking to the future

- Continue implementation of functionality
 - Currently appropriate for about 50%-60% of researchers needing a relational database
- Provide better integration with other software
- Ensure other institutions can adopt and adapt the DaaS software to serve their own needs
- Establish a national service?
- Need to build both a user and a development community to ensure continued success of software
- DaMaRO Project will integrate ORDS into existing infrastructure

The DaaS is Open Source Software

- Released under an Open Source Initiative (OSI) certified licence
- May be freely distributed
- Source code is freely available and may be modified
 - enables anyone with an interest in the software to adapt it to suit their own purposes
- So, our DaaS is yours

<http://code.google.com/p/vidaas/>

Functionality

Implemented

- Designing and importing relational databases
- Data adding, editing, and filtering interface
- SQL querying
- Database sharing, with different permissions assigned to collaborators
- Data back-ups
- Data may be accessed and edited via third-party software such as Microsoft Access
- Database export (as .csv)
- Project and database metadata capture
- Integration with Oxford & external (VMware) cloud infrastructures

To come

- Full integration of database designer and form-builder tools
- XML database querying
- Inclusion of image and audio data in databases
- Simplified query interface
- Save & re-run queries
- 'Publish' data views, either static or dynamic
- Display results on maps
- Additional input and output formats
- Automatic migration
- Offline editing of databases
- Custom usage reporting

The Online Research Database Service

- The DaaS software needs a service around it, in order to:
 - Link it to existing research infrastructure
 - Adapt it to changing infrastructure / user needs (& fix bugs!)
 - Provide user support and up-to-date documentation
 - Process payments
 - Ensure local sustainability
- Due to launch for Oxford in Summer 2012
 - Need to upgrade software platform beforehand for security

Service offering and prices

- ORDS service will be offered on a cost-recovery basis
 - c.£600 per year for a standard project (up to 25GB storage)
 - c.£2,000 per year for a 'large' project (up to 100GB storage)
 - Custom configurations available on request
 - Nightly back-up
- Later option to use 'public' cloud for hosting, at reduced cost
- Different arrangements for 'unfunded' research

Your thoughts?

- Do you think that offering the DaaS as part of a service at your institution would bring benefits?
- Would you be interested in using the DaaS for your own research?
- What do we need to do to enable other institutions to use the software?
- What elements of functionality should we prioritize?
- What do you see as being barriers to adoption?

<http://vidaas.oucs.ox.ac.uk/>

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<http://daas-4.ords.ox.ac.uk/>

Please email us to receive progress updates



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