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<http://www.ngs.ac.uk>

# Data services on the NGS



<http://www.pparc.ac.uk/>



<http://www.eu-egee.org/>



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# Overview



- OGSA-DAI: data access and integration
- GridFTP: a protocol for large file transfer
- The Storage Resource Broker
- And also: ORACLE – available for data storage



# Oracle and the NGS (1)



- The NGS core nodes, from the outset, have been partitioned into compute and data clusters.
- As the NGS matures the requirement for data hosting will grow
- Oracle database: for both users and services offered by the NGS.

**The NGS Oracle service  
is ready to host data  
for your project!**

- The RAL and Manchester sites are designated as the data clusters with each site having the ability to dedicate up to eight nodes for use by Oracle.



# Oracle and the NGS (2)



## Support

- Additional application needed after joining the NGS
- All enquiries and production support for the Oracle service is via the Grid Operations Support Centre ([GOSC](#))
  - 9-5 Operational support (monitoring, notification, maintenance) other times best endeavours basis.



# Data services on NGS



## Simple data files

- Middleware supporting
  - **Replica files**
  - **Logical filenames**
  - **Catalogue**: maps logical name to physical storage device/file
  - **Virtual filesystems**, POSIX-like I/O
- **Storage Resource Broker**

## Structured data

- RDBMS, XML databases
- Require extendable middleware tools to support
  - Move computation near to data
  - easy access, controlled by AA
  - integration and federation
- **OGSA -DAI**