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# Data services on the NGS

PPARC

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eGEE

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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

- 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.
- Additional application needed after joining the NGS

# 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**
  - **Data in SRB vaults**

## 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**