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# GridSAM Product Roadmap

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## 1 Introduction

This document provides the development roadmap for GridSAM for a period of 5 months from August 1<sup>st</sup> 2009. Input and feedback from users, user groups, service providers and developers is invited.

New requirements, requests for clarification or amendment to existing requirements or indications of support for existing requirements should be sent to either the GridSAM SourceForge project mailing lists (gridsam-discuss/gridsam-developer) or through the OMII-UK Support ticketing system.

## 2 Strategic Aims

The development of GridSAM adheres to the following strategic aims:

- Work closely with the following groups, ensuring development work is prioritised by user requirements:
  - New and potential users and user groups to support uptake of GridSAM, including but not limited to end users, developers and infrastructure providers
  - Existing user and development communities to rapidly address technical concerns
- Ensure GridSAM is a sustainable product for OMII-UK, our developers and our user community, without dependency on any single funding stream or single institution
- Completeness and robustness of standards-oriented implementation guided by user demand, including but not limited to the following:
  - [SL] Service level: standards compliance through involvement in relevant standards communities, and appropriate security support for authentication and authorisation
  - [RL] Resource level: fully implemented, appropriate standards support across Distributed Resource Managers (DRMs) and data storage mechanisms
  - [DE] Deployment: support for installation and configuration
  - [DO] Documentation
  - [PR] Performance and reliability
- [OD] Adherence to an open development process and active dissemination of development plans and progress
- Continued user-focused internal testing, identification of technical issues and their resolution

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## 3 Roadmap

In the short term (up to a month), the following roadmap indicates a commitment to the work items scheduled. Beyond two months, the roadmap represents a plan that is subject to possible displacement by higher priority requirements that may arise from our communities.

### 1-month to end of August 2009:

- [SL, RL] Audit of OGSA Basic Execution Service (BES) v1.0 support across evolving DRM connectors and appropriate development where required
- [PR] Replacement of Quartz scheduler v1.4.5 with more reliable and efficient v1.6.5
- [SL, RL] Support for access to multiple remote ssh accounts for ssh job submission for PBS DRM connector
- [SL, RL] BES support for GetFactoryAttributes across prioritised list of DRM connectors: PBS, Condor, Globus, Sun GridEngine, Fork
- [OD] Housekeeping and clean-up of GridSAM SourceForge project and improved website, publication of roadmap and where to obtain information and support
- [DE] Release package in Web Archive (WAR)-based format to support basic deployment of multiple instances in single container
- [DO] Refactored documentation based on rationalised contents plan, with particular focus on OGF standards and use
- [SL, RL] Improved credential support for JSDL DataStaging elements (HPC File Staging Profile v1.0)

### 3-month to end of October 2009:

- [SL, RL] Support for JSDL FileSystemName and MountPoint across prioritised list of DRM connectors: PBS, Condor, Globus, Sun GridEngine, Fork
- [SL, RL] Support for JSDL Resource across prioritised list of DRM connectors: PBS, Condor, Globus, Fork
- [SL] Investigation into supporting LCAS/LCMAPS
- [RL] Verification and testing of PBSPRO support
- [DE] Investigation into support for operation behind a web proxy
- [SL] Investigation into supporting Usage Record (UR) and Resource Utilisation Service (RUS)
- [SL] Investigation into supporting GLUE 2.0
- [RL] Adoption of new Commons-VFS protocol plug-in support for SRB and iRODS developed through Commons-VFS SourceForge project

### 5-month to end of December 2009:

- [SL] Support for JSDL Parameter Sweep Extension

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- [SL, RL] Investigation into appropriate support for use with HARC (Highly Available Resource Co-allocator) advance reservation service
  - [RL] Support for MPI through Globus DRM connector

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