

NGS 3 – Work Packages

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Version: 1.4

Revision History

Version	Comment
0.1	Initial project plan June 2009, reference version
0.2	Addition of updates on defined WP milestones and changes based on comments from NGS Board 1
1.0	Final version of July report
1.1	September DRAFT update reflecting board comments from July
1.2	Update reflecting further NGS board comments. Updates to management board structure and themes – contracted sites, to reflect work of all sites in appropriate areas. Target dates set to consistent 'end Month'

Introduction

This document covers the project plan for the NGS, phase 3, as of June 2009. The project plan should be treated as a work in progress due the ongoing developmental nature of the NGS as a service. The project plan is developed with a forward 3/6month view dependant on work package.

The project plan is managed through Theme A of the NGS Management Board, which reports to NGS Board.

Where months only are stated in the project plan these are interpreted as end of month dates.

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1. Work-Package Management Board Report Structure

Work Package leaders, or their nominee, report directly to the Management Board, under the management themes A to D. Themes have nominated representatives to coordinate reporting to management board in the absence of work package leaders. Note: Theme representatives do not lead work packages. The larger service oriented ‘business as usual’ aspects report to the Operations Board for technical discussions and implementation issues.

It is the responsibility of all responsible areas to define and arrange meeting structures that work best for their own work areas. The management board will act as the overriding management structure to ensure delivery of milestones against the agreed project plan for NGS3.

Contracted sites are those who are funded under the NGS3 project plan to deliver specific aspects of the named work package.

NGS Management Board Themes		Work Package(s)	Work Package Leader	Contracted Sites
Management Board	Theme A <i>Service Management (Executive Dir)</i>	JWP1 – Project Management JWP3 – Transition to SLA	Executive Director (Andrew Richards)	STFC Oxford
		JWP4– Accounting and Charge Models	Mike Jones	Leeds Manchester
	Theme B Operations Board <i>(Operations Manager)</i>	JWP2 – Core Services <i>EWPO – Core Service contribution</i>	Operations Manager (Peter Oliver)	Leeds Manchester Oxford STFC
	Theme C <i>Liaison (Executive Director)</i>	JWP5a Partnership	Technical Director (David Wallom)	Leeds Manchester Oxford STFC
		JWP5b Training	David Fergusson	Edinburgh All as part of normal site support activities
		JWP5c Outreach	Gillian Sinclair	Manchester All as part of normal site support activities
		JWP6 International Engagement	Neil Geddes	All as part of normal outreach. Overall coordination STFC.
	Theme D <i>Research Development (Technical Director)</i>	EWP1 - OPN EWP4 – Novel User Support Environments	Technical Director (David Wallom)	Leeds Manchester Oxford STFC
		EWP2 – Agile Deployment Environments	David Fergusson	Edinburgh Oxford
		EWP3 –Integrated Infrastructure	Jason Lander	Leeds Manchester STFC

Theme A – Service Management

Work Package	WP Leader
JWP1 – Project Management	Executive Director (Andrew Richards)
JWP3 – Transition to SLA	Executive Director (Andrew Richards)
JWP4– Accounting and Charge Models	Mike Jones

JWP1 Project Management

Deliverable	Description	Target Date
JWP1.D1	NGS 3 Project plan for JISC and EPSRC	End April 09
JWP1.D2	Quarterly project report to NGS Board	Quarterly
JWP1.D3	6 Monthly review to EPSRC and JISC	6 monthly
JWP1.D4	At least once per month NGS Management Board meetings	monthly

JWP3 Transition to SLA

Deliverable	Description	Target Date
JWP3.D1	Report on the impact of the transition to EGI/NGI and what role this will have in defining the future model for operation of the NGS as an NGI	End December 2009
JWP3.D2	Report on the potential SLA models as defined by JISC to determine which model(s) are appropriate for post NGS phase 3	End March 2011

JWP3.D3	Evaluate identified SLA models using each of the core NGS sites to act as trial model sites where appropriate	End December 2010
JWP3.D4	Report on appropriate model to JISC (project board) informs phase 4 funding and sustainability longer term	
JWP3.D5	Evaluate options to produce joint bid with GridPP/other national e-infrastructure activities for post NGS3, NGI phase	End March 2010

JWP4 Accounting and Charge Models

Deliverable	Description	Target Date
JWP4.D1	To understand and document the Accounting Architecture for NGS. (Looking upward to EGI and other NGI interoperation and looking down at on-the-ground services)	End Dec 2009
JWP4.D2	Input into Resource Usage Publishing Interface (RUPI) specification	End Dec 2009
JWP4.D3	Input into Resource Usage Query Interface (RUQI) or its manifestation	End Dec 2009

Theme B Operations

Work Package	WP Leader
JWP2 – Core Services	Operations Manager(Peter Oliver)
<i>EWPO – Core Service Contribution n.b. This has no deliverables as this provides contributory funding to JWP2</i>	Operations Manager

The operations board has a set of high level objectives for the 2 years of NGS3, which divide the work into a set of self contained deliverables.

Deliverable	Description	Target Date
JWP2.D1 – Production hardening	To define best-practice guidelines and SLAs for central services with an accompanying monitoring framework, in order to deliver those services to production standard	March 2011
JWP2.D2 – Software stack installation documentation	To provide validated central documentation describing installation and configuration of Grid Software as defined by the NGS Software Stack, together with technical appendices covering known deviations and a conformance testing framework	March 2011

JWP2.D3 – Authentication and authorisation	To provide an authentication and authorisation framework for managing access to UK Grid resources based on an individual and organisational basis	March 2011
JWP2.D4 – User information services	To provide information services describing the currently available state of NGS resources, including real time and site information	March 2011
JWP2.D5 – User support framework	To provide a help desk service and web presence for the NGS under a defined SLA in order to support the UK users of Grid software	March 2011
JWP2.D6 – Accounting and policing	To provide the framework to allow services (both central and partner) to record usage of their systems and police access based on those data	March 2011
JWP2.D7 – User tools	To provide and/or document tools to enable users to access NGS Grid resources	March 2011
JWP2.D8 – Data management	To provide mechanisms for storing, moving and retrieving data onto, around and off NGS Grid resources	March 2011
JWP2.D9 – Brokering and advanced reservation	To provide a brokering and advanced reservation service	March 2011
JWP2.D10 - Costing services	To provide advice to the charging and accounting WP on the actual costs of providing NGS central services.	March 2011

Within the 10 deliverables, 3 and 6 months milestones have been set to enable effective management of the operations activities. These are summarised for the first 3 and 6 months in the following table

Detailed milestones relating to the above 2 year milestones are in document **NGSOperations1.9.pdf**

Theme C Liaison

Work Package	WP Leader
JWP5a Partnership	Technical Director (David Wallom)
JWP5b Training	David Fergusson
JWP5c Outreach	Gillian Sinclair
JWP6 International Engagement	Neil Geddes

JWP5a Partnership

Deliverable	Description	Target Date
JWP5a.D1	Automated compliance testing	End Dec 2009
JWP5a.D2	Automated Site information connection and information system connection	End Sep 2010
JWP5a.D3	Requirements gathering report on HEI research computing support	End Sep 2009
JWP5a.D4	25 New HEI members	End March 2010
JWP5a.D5	50 New HEI members(signed up automatically)	End March 2011
JWP5a.D6	Support for tools and mechanisms employed by DIAMOND and bridging between the various user communities	End March 2010

JWP5a.D7	Support for tools and mechanisms employed by ISIS and bridging between the various user communities	End Sep 2009
JWP5a.D8	Support for tools and mechanisms employed by BL and bridging between the various user communities	End March 2011
JWP5a.D9	Prototype connection between the NGS, partner institutions and RDS_DS	End Sep 2009

JWP5b Training

Deliverable	Description	Target Date
JWP5b.D1	Training provision plan	End June 2009
JWP5b.D2	Training events and materials report 1	End May 2010
JWP5b.D3	Training events and materials report 2	End feb 2011
JWP5b.D4	Online training provision report	End Sep 2010
JWP5b.D5	Training support services review report and future plan	End Sep 2009

JWP5c Outreach

Deliverable	Description	Target Date
JWP5c.D1	Press releases - Goal – Minimum of 10 in 24 months	End March

	Two press releases in each 6 month period regarding NGS developments or important groundbreaking research performed using NGS resources	2011 End Sept 2009 End March 2010 End Sept 2010 End March 2011
JWP5c.D2	Case studies - Goal – Min. of 4 case studies to be produced in 24 months A new case study highlighting the use of NGS resources in a new research area to be produced every 6 months.	End March 2011 End Sept 2009 End March 2010 End Sept 2010 End March 2011
JWP5c.D3	Newsletter - Goal – 8 editions to be published in 24 months Newsletters to be published on a quarterly basis featuring news from the NGS and related organisations, highlighting research performed on NGS resources by users and providing an introduction to the NGS organisation and staff.	End March 2011 End August 2009 End November 2009 End Feb

		2010 End May 2010 End August 2010 End November 2010 End Feb 2011
JWP5c.D4	Roadshows - Goal – Minimum of 5 roadshows in 12 months Minimum of 5 roadshows in 12 months	End March 2010 End March 2011
JWP5c.D5	Innovation Forums - Goal – 2 innovation forums to be held over 24 months Venue and date confirmed for IF'10 Agenda confirmed for IF'10 Speakers invited and confirmed for IF'10 Registration open for IF'10 IF'10 take place	End March 2011 End of Feb 2010 End of July 2010 End of August 2010 End of August 2010 End of October 2010

JWP5c.D6	<p>Conferences - Goal – min. of 4 research / user conferences attended by the NGS with an exhibition stand and / or presentation</p> <p>min. of 4 research / user conferences attended by the NGS with an exhibition stand and / or presentation</p>	<p>End March 2010</p> <p>End of March 2011</p>
JWP5c.D7	<p>Continuation of regular outreach mechanisms – includes regular updating of the NGS website, production of the fortnightly email news bulletin, maintenance of the NGS groups on Flickr and Facebook, updating the NGS blog on at least a twice weekly basis, writing the monthly NGS page for the NeSC newsletter, writing other articles for publications such as iSGTW.</p>	<p>End March 2011</p>
JWP5c.D8	<p>User Survey - Goal – user survey to be completed each year in Sept and results published</p> <p>Requirements to be gathered for the user survey ie questions to be asked</p> <p>Questionnaire to be assembled using Zoomerang or other online system</p> <p>Questionnaire to be advertised to all NGS users</p> <p>Questionnaire to close</p> <p>Results to be gathered and analysed</p> <p>Report to be circulated to NGS Management board on the results</p> <p>Report to be made publicly available</p>	<p>End October 2009</p> <p>End of Oct 2009</p> <p>End of Oct 2009</p> <p>End of Oct 2009</p> <p>End of Dec 2009</p> <p>End of Jan 2009</p> <p>End of Feb 2009</p> <p>End of March 2009</p>

	Comments	
JWP5c.D9	<p>User Survey - Goal – user survey to be completed each year in Sept and results published</p> <p>Comments</p> <p>Requirements to be gathered for the user survey ie questions to be asked</p> <p>Questionnaire to be assembled using Zoomerang or other online system</p> <p>Questionnaire to be advertised to all NGS users</p> <p>Questionnaire to close</p> <p>Results to be gathered and analysed</p> <p>Report to be circulated to NGS Management board on the results</p> <p>Report to be made publicly available</p>	<p>End Dec 2010</p> <p>End of Oct 2010</p> <p>End of Oct 2010</p> <p>End of Oct 2010</p> <p>End of Dec 2010</p> <p>End of Jan 2011</p> <p>End of Feb 2011</p> <p>End of March 2011</p>
JWP5c.D10	<p>Website - Goal – revamp of the existing NGS website</p> <p>Framework of new website</p> <p>Existing content moved over to new site</p> <p>Analysis of missing or required content</p> <p>Commissioning of missing or required content for the new site</p> <p>Missing or required content added to website</p>	<p>End March 2010</p> <p>End of Sept 2009</p> <p>End of Oct 2009</p> <p>End of Nov 2009</p> <p>End of Dec 2009</p> <p>End of Feb 2010</p>

JWP6 International Engagement

Deliverable	Description	Target Date
JWP6.D1	Annual report of international engagement activities as part of project report.	Month 12 and Month 24

Theme D Research Development

Work Package	WP Leader
EWP1 - OPN	Technical Director (David Wallom)
EWP4 – Novel User Support Environments	Technical Director (David Wallom)
EWP2 – Agile Deployment Environments	David Fergusson
EWP3 –Integrated Infrastructure	Jason Lander

EWP1 - OPN

Deliverable	Description	Target Date
EWP1.D1	Report identifying key UK data sources/sinks, including identification with ja.net of the appropriate technology to do the interconnection	Jul-09
EWP1.D2	Connection of first 5 data sources	Dec-09
EWP1.D3	Connection of first 5 NGS partner data sinks (computational and data storage sites)	Dec-09
EWP1.D4	Writing of report to normalise the procedure of connection data sources and sinks to the dark fibre backbone, working with HEIs to ensure that the last mile problems are solved in a sustainable way	Mar-10

EWP4 Novel User Support Environments

Deliverable	Description	Target Date
EWP4.D1	Utilising old NGS provisioned systems to build small test system to ensure support for AWS based client systems, creation of documentation to show connectivity between	Jul-09
EWP4.D2	User requirements analysis for cloud based systems within the NGS	Jul-09
EWP4.D3	Develop/document and deployment of NGS compatible management interfaces for chosen virtualisation support environment	Dec-09
EWP4.D4	Report describing best practice installation of server system fitting into NGS philosophy for HEI to deploy their own systems becoming members	Mar-10
EWP4.D5	Working with user community to deploy standards based central server clients onto the NGS	

EWP2 Agile Deployment Environments

Deliverable	Description	Target Date
EWP2.D1	Report on the initial deployment of virtualised NGS environments and their test usage in training events	Oct-09
EWP2.D2	Report on institutional requirements to support research communities using virtualised environments	Jul-10
EWP2.D3	Report on the experiences of deploying hosting environments for NGS virtual machines	Dec-10

EWP3 Integrated Infrastructure

Deliverable	Description	Target Date
EWP3.D1	Annual report of international engagement as part of project report	March 2010
EWP3.D2	Prioritised list of projects that could use services from the NGS	June 2009 (Complete)
EWP3.D3	<p>A list of services that the NGS could provide for projects identified in EWP3.D2. Ideally these should include</p> <ul style="list-style-type: none"> • an 'execution' service other than GT2; • a data-provider service • a service benefiting from VO support <p>We will also need some base services e.g. Tomcat hosting to support others</p>	June 2009
EWP3.D4	Feasibility studies for each service. It is expected that some of these will conclude that the service is not viable. Note: a 'no-can-do' report is a deliverable.	December 2009

EWP3.D5	Set of documentation / install scripts for deploying those services that are viable.	May 2010
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