

Clarification to: Assessment of Core Services provided to U.S. ATLAS and U.S. CMS by OSG

March 15th, 2010

Introduction.....	1
Effort.....	1
Table 1: Current OSG LHC services and the associated effort	1
Table 2: Non-LHC Areas supported by OSG and the associated effort	2
Table 3: Additional future OSG LHC services and the associated effort.....	3
Table 4: Totals	3

Introduction

This note is in response to an email from the US ATLAS and US CMS software and computing coordinators to provide a clarification on the recent “Assessment of Core Services provided to U.S. ATLAS and U.S. CMS by OSG” as follows:

The intent of the charge was that we delineate clearly what parts of the OSG are LHC specific and what parts are community grid infrastructure that other OSG science communities as well as the LHC take advantage of. This can roughly be inferred from the initial tables but needs to be made explicit.

There are 3 effort tables below:

- Current OSG LHC services and the associated effort.
- Non-LHC Areas supported by OSG and the associated effort.
- Additional proposed OSG LHC service work for the future and the associated effort.

We then present a summary of the totals.

Effort

Table 1: Current OSG LHC services and the associated effort

Major Area	Sub Area	Effort [FTE]	U.S. LHC Priority	General Service Description	Effort that is General Services	+ Effort from Table2
WLCG	Interoperability and Integration	0.5	High	Promulgates model of federated infrastructures which helps Alice, LHCb, LIGO, Run II, other sciences	0.2	
WLCG	Compliance with MOU (e.g. accounting, facility capacity reporting)	1.5	High	Accounting and availability used by all communities	0.25	
WLCG	Representing US Interests	0.75	Medium	Promulgates model of federation which helps Alice, LHCb, LIGO, Run II, other sciences.	0.25	
<i>WLCG Subtotal</i>		<i>2.75</i>			<i>0.7</i>	

Major Area	Sub Area	Effort [FTE]	U.S. LHC Priority	General Service Description	Effort that is General Services	+ Effort from Table2
Operations	Grid Operations Center	3	Medium	General ticketing system used by all communities, monitoring and alarming SBGrid, Run II, Engage,	0.5	
Operations	VDT (Middleware Distribution), Integration Testbed, Documentation, Development Support	9	Medium	Integration effort tests software for all communities, Native packaging, collections used by LIGO, EGEE/EMI, TeraGrid, APAC. Storage support for LIGO and other communities	2.5	0.7
Operations	Cyber Security	2	High	Benefits all communities	0.5	0.8
<i>Operations Subtotal</i>		<i>14</i>			<i>4.9</i>	<i>1.5</i>
VO Layer	Workload Management System Support	2.5	Medium	Specific to the VOs	0	1.5
Forward Looking	Design, Scalability	1.75	High	Benefits all used of the software and infrastructure, making a more hardened and supportable systems	1.0	
Program Management & Administration		0.5	Medium	Covered by effort in Table 2		
Tier-3 & Production Support		1.5	Medium	Provides model for small sites and campus with distributed infrastructures	0.5	
<i>Total</i>		<i>23</i>			<i>6.4</i>	<i>3.0</i>

Table 2: Non-LHC Areas supported by OSG and the associated effort

Other Areas	Effort [FTE]	Effort Providing General Benefit [FTE]
LIGO	2	
Engage	1.5	1.0
Communication, management, administration	1.5	1.5
Education, training	1.6	1.6
VO support	1.5	0.5
VDT	0.7	0.7
Operations	0.2	0.2
Integration Testbed	1.1	1.1
Cyber Security	0.8	0.8
SBGrid	0.8	
Total	11.7	7.4

Table 3: Additional future OSG LHC services and the associated effort

Major Area	Sub Area	Effort [FTE]	U.S. LHC Priority	Leverage to General Services
Configuration Management	<ul style="list-style-type: none"> • Across services on different hosts • Local configuration versioning • Software repositories 	1	High	1
Integration of Commercial and Scientific Clouds	<ul style="list-style-type: none"> • Transparency at application layer • Cloud interfaces at sites • Data handling & Data provisioning 	2	Medium	1
Usability for collaborative analysis	<ul style="list-style-type: none"> • User access to shared storage (incl. change management) • Grid-level diagnostics • "dynamic collaborations within large VOs • Overall scalability of services 	2	Medium	2
Active management of shared capacity, utilization planning, accounting and reporting, and change		1	Medium	1
End-to-End Data Management challenges in light of advanced networks	<ul style="list-style-type: none"> • Dynamic circuit reservation • Dynamic data Placement 	2	Medium	1
<i>Total</i>		8	6	

Table 4: Totals

	Effort [FTE]
Effort to support just the LHC	23.0
Effort supporting LHC specific services (23-6.4)	16.6
Effort for other specific communities including LIGO (11.7-7.4)	4.3
Effort on General Services (6.4+7.4)	13.8
Total current OSG effort (23+11.7)	34.7

Additional effort to support future LHC needs is 8 FTE of which 6 FTE can be leveraged for the general community.