

Supporting the Heavy User Communities

Few slides introducing discussion about SA4 in the EGI-Inspire Proposal: Draft V2 released on the 16-9 is the starting reference

The SA4 Services and Tools

1.2.1.2 sub-call 5 M Euro EC funding allocated

“to deploy services for user communities that are heavy users of DCIs and have a multi-national dimension. Software components should be integrated in platforms as needed for service provision. Where appropriate, new service provision models should be explored and harmonised interfaces to DCI resources should be ensured.”

- Shared services and tools, but also HUC (and VO) specific ones, which are in use already now, and are not foreseen as part of the General EGI infrastructure: provisional Table of these “general” components in next slide
- An important aim of SA4 is accompanying its services into the transition to a sustainable model
 - **Part to EGI general**
 - **Part to community support**

Service Description/Name	Main User Community	Future Software Provider	Current Software Provider
Compute Element For gLite CREAM, and LCG CE till CREAM is in production	All	EMI	gLite/ARC/UNICORE
DPM	All	EMI	gLite
dCache	All	EMI	dCache.org
StoRM	All	EMI/INFN?	INFN
Castor	All	CERN	CERN
Info.services (including BDII)	All	EMI	gLite/ARC/UNICORE
Accounting	All	EMI	gLite/ARC/UNICORE
Authorization Services (including VOMS, MyProxy, SCAS, LCMAPS, LCAS, gLExec, delegation service)	All	EMI	gLite/ARC/UNICORE
Work Load Management services (including WMS+LB)	All	EMI	gLite/ARC/UNICORE
LFC	HEP, LS, CCMST, ES, FUSION	EMI	gLite
FTS	HEP, LS, CCMST	EMI	gLite
AMGA	LS, CCMST, A&A, ES	EMI	gLite
Hydra	LS	EMI	gLite

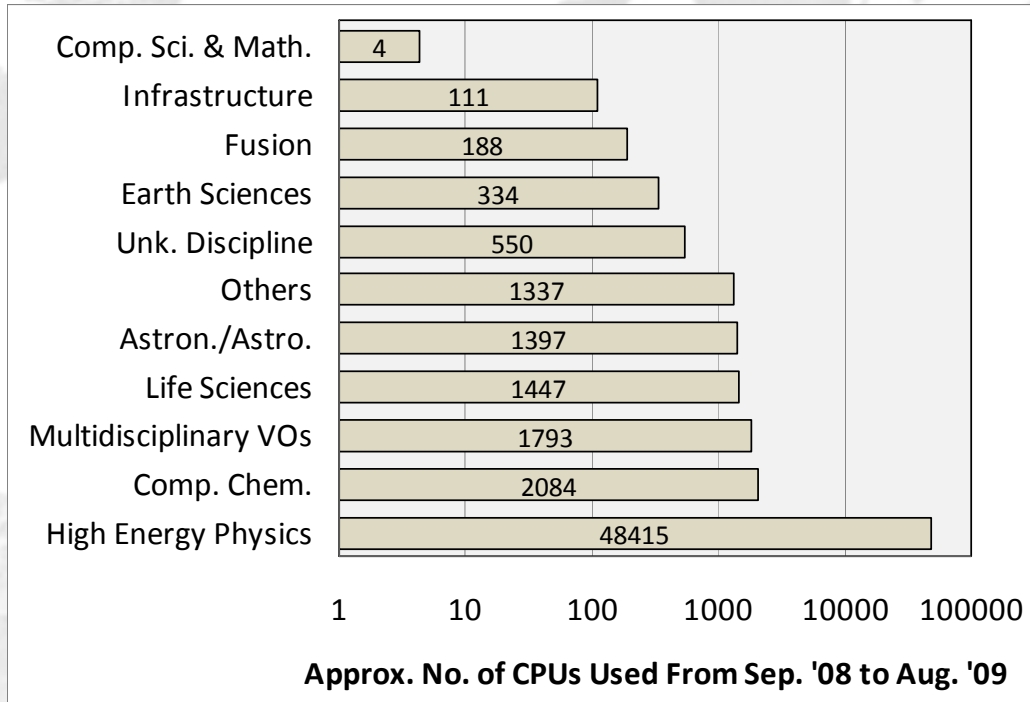
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Table notes

- HEP has reported gLite and ARC as present providers, the ARC provider usage being mainly connected to the Nordic Sites (around 20% of the total use)
- LS and CCMST have reported gLite, ARC and UNICORE as present providers, with ARC connected to the usage of Nordic sites as above, and UNICORE connected with MPI usage and/or for German Sites
- ES and Fusion have reported gLite and UNICORE as present providers, connected to MPI usage and/or for German Sites

The HUCs

- SA4 covers the 6 Scientific Communities with the largest CPU use in the last year.



The usage range is very broad, the low usage HUCs should provide additional justification.

The proposed effort (FTE) assuming 3 years project and 90k FTE full cost is:
 HEP=17, LS=6,
 CCMST=AA=4,
 ES=FUSION=3

Comments welcome

The Tasks – SA4.2

- SA4.2 Shared Services & Tools

Tool or Service	Current HUC Adopters	Future HUC Adopters
Dashboard for monitoring	HEP, LS, CCMST, ES	A&A
GANGA Task Manager	HEP, CCMST, A&A, ES	F, LS
GRIC Database Access Service	ES, A&A, CCMST	
TAVERNA Workflow Manager	LS, A&A, CCMST	
DIANE Task Manager and Workflow Manager	A&A, ES, LS	

The main User HUC is expected to provide Support also to the other HUCs

HOW is to be Clarified for V3. Input welcome

The Tasks – SA4.2

- In addition to the above well identified tools, much interest in converging on
 1. **Tools for Workflow Management**
 2. **Tools to access databases and to handle metadata**
 - besides AMGA and GReIC, other tools mentioned are G-DSE , OGSA-DAI, Spitfire
 3. **MPI and interoperation between Grid and HPC**
- A new specific task for “converging tools” could be created for 1 and 2
 - It will include, in re-shaped form, some of the text now in the Tasks HUC specific
- MPI point (3) is very important, I feel SA4 should contribute, but not clear to me how to include in SA4: there are “general EGI” tools to start with! **Input here very welcome**

The Tasks – SA4.3

- **TSA4.3 Scientific Gateways for Heavy User Communities**
 - Tools related to gateways have been included in this single specific tasks with the aim of easing the move of some of these activities to a “EGI 1.2.1.4 Project” in view that such project may become available
 - The best path I see here is HUC to **decide this week** if the proposed project(s) are suitable and what they propose to move there and what to stay in SA4
 - **A Project is presented today 19-20.30 in room Montjiuc, HUC presence welcome**
 - For the final wrap-up on this discussion we could perhaps use the SSC workshop on Friday

The Tasks: Specific HUC/VO tasks

- A very important part of SA4, even if it is not expected many of this specific services will finally move to general EGI
- It is nevertheless needed to be able to monitor progress also for this part and indicate some specific milestones/deliverables in V3
- A simple possibility could be at least 2 deliv (but 3 better)
 - A deliverable at mid-project presenting (for each HUC) the achievements in term of advantages for HUC research and evolution of the specific tools/services and the plans for the rest of the Project
 - A deliverable 4 months before Project End reporting the same points as above in view of the Project conclusion.
- Input on this proposal is very welcome during this week for shaping SA4 in V3

Summary of points for input

- How shared services/tools are supported
 - for HUCs different from the co-funded one
 - Is Diane supported by A&A in full
- MPI interoperability, is SA4 right for supporting the existing tools? Others?
- Move to 1.2.14 Gateway Project, if, what
- Monitoring progress in HUC/VO specific tasks
-others.....
- Justification for HUCs with smaller use
 - For V3 text, not need to be discussed here