

PROGRESS:GSP

PROGRESS Grid Service Provider

about:

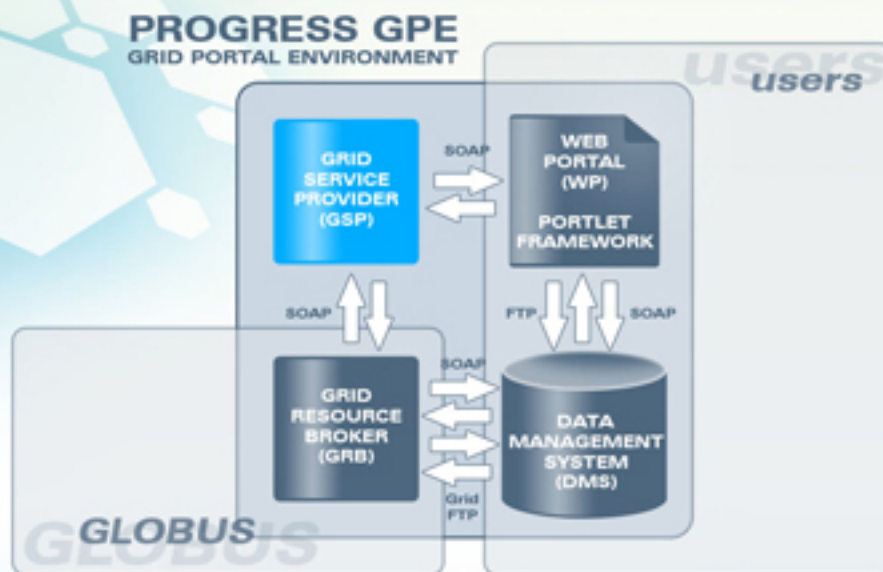
Motivation:

- grid access environments lacked flexibility: one grid - one portal
- users must have relied on the grid (e.g. job execution history)
- standard user interfaces were not that much functional
- problem: what if we need more than one user interface to grid services?

Grid Service Provider:

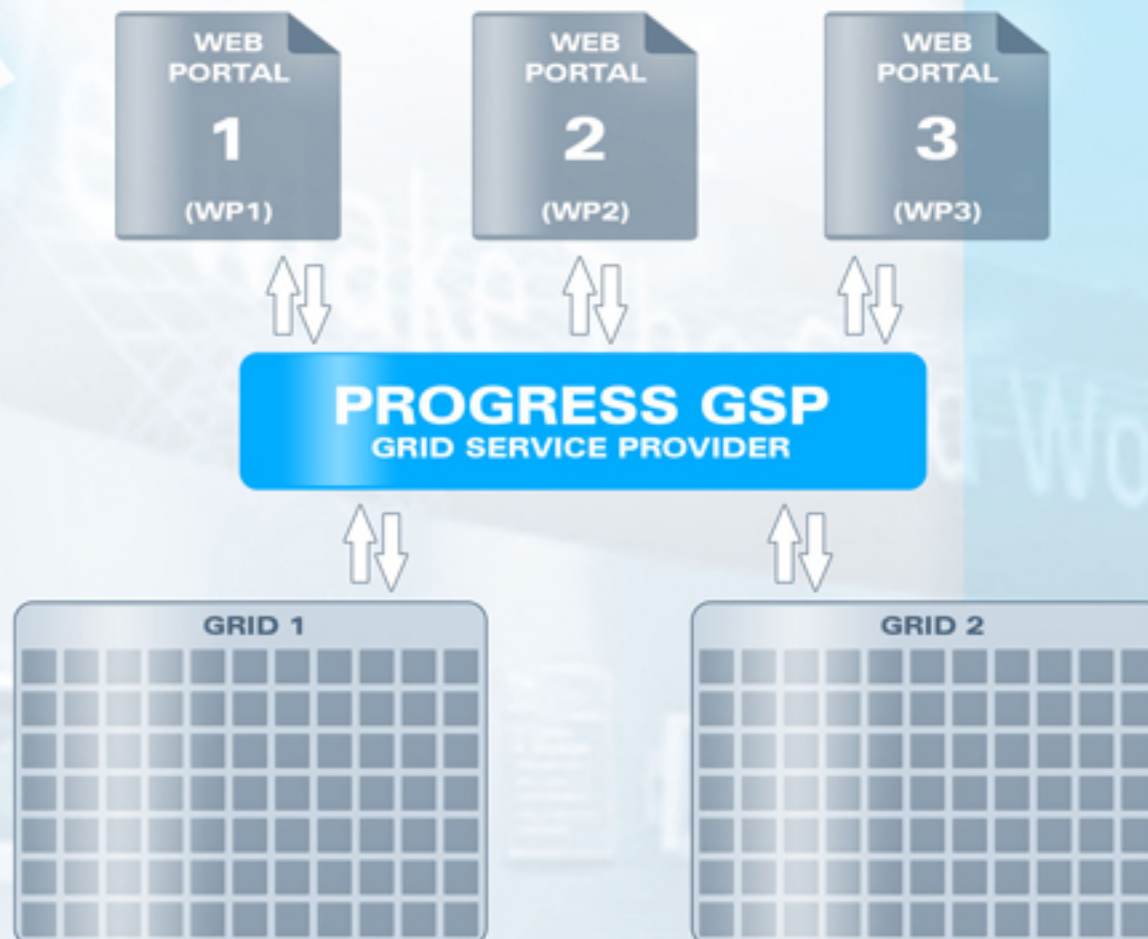
- manage your grid applications
- submit your jobs to multiple grid infrastructures
- enable your grid resources and applications in multiple portals
- save your grid job configurations and history

project:



The PROGRESS project was co-financed by the State Committee for Scientific Research and Sun Microsystems Poland and lasted since December 2001 until the end of 2003. It aimed to deliver an access environment to grid computing resources and services. The project resulted in a set of grid-portal environment tools, which are subject to continuous research and development, and have been deployed to form the PROGRESS HPC Portal.

architecture:



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PROGRESS:GSP

PROGRESS Grid Service Provider

Job Submission Service

- Build and configure your grid jobs and save your job history
- Submit jobs to various grid infrastructures thanks to the Grid Resource Broker Plug-in mechanism
- Use workflows

Application Management Service

- Manage grid applications
- Build numerous configurations of your application to facilitate its use by non-advanced users
- Build virtual applications to hide workflow complexity from non-experienced users

Grid Service Provider enables business logic implemented with the Enterprise Java Beans technology via Web Services interfaces

- Enable GSP services within your portal
- Utilize core portlets developed with the use of the PROGRESS Portlet Framework to deliver your customized solution

Other important features:

Single Sign-On, external authorization system

functionality:

screenshots:

Job list				
Job list (6 jobs)				
	Job name	Status	Created on	Action
<input checked="" type="checkbox"/>	DNA Assembly	active	2004-06-16 11:04:58.0	submit
<input checked="" type="checkbox"/>	Gaussian	finished	2004-06-15 13:15:07.0	get info
<input checked="" type="checkbox"/>	LAD	not submitted	2004-06-03 13:01:28.0	submit
<input checked="" type="checkbox"/>	Predict secondary structures	active	2004-06-14 13:58:39.0	get info
<input checked="" type="checkbox"/>	SARS	finished	2004-06-03 12:24:53.0	get info
<input checked="" type="checkbox"/>	Test of new server	failed	2004-06-07 13:40:47.0	submit

Virtual application subelements		
Virtual application		
Virtual application name	LAD - testing	
Virtual application description	A2+D	
Parent element		
Parent element name	sequence A2+D	
Parent element type	sequence	
Parent element description	Sequence of applications A2 and D	
[c] go to parent element		
Subelements		
Element name	Element type	Action
A2	single	edit delete
D	single	edit delete
[v] add subelement		

Access to GSP services:
Job Submission Service
and Application Management Service

URL: <http://progress.psnk.pl/>

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progress project