PROGRESS:PF
PROGRESS Portlet Framework

Motivation:
- each portlet must have been designed from scratch
- it has been hard to change the behavior of portlets
- the customization of portlets has always required re-programming
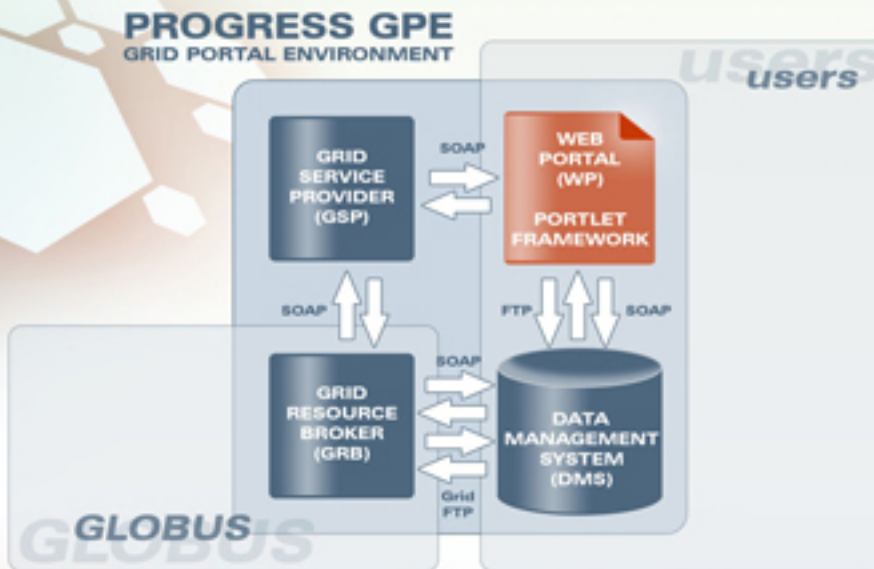- problem: what if we want to create tens of portlets accessing the same services?

Portlet Framework:
- build portlets to access Web Services
- reuse components of existing portlets in new web applications/portlets
- customize the existing portlets with NO Java coding
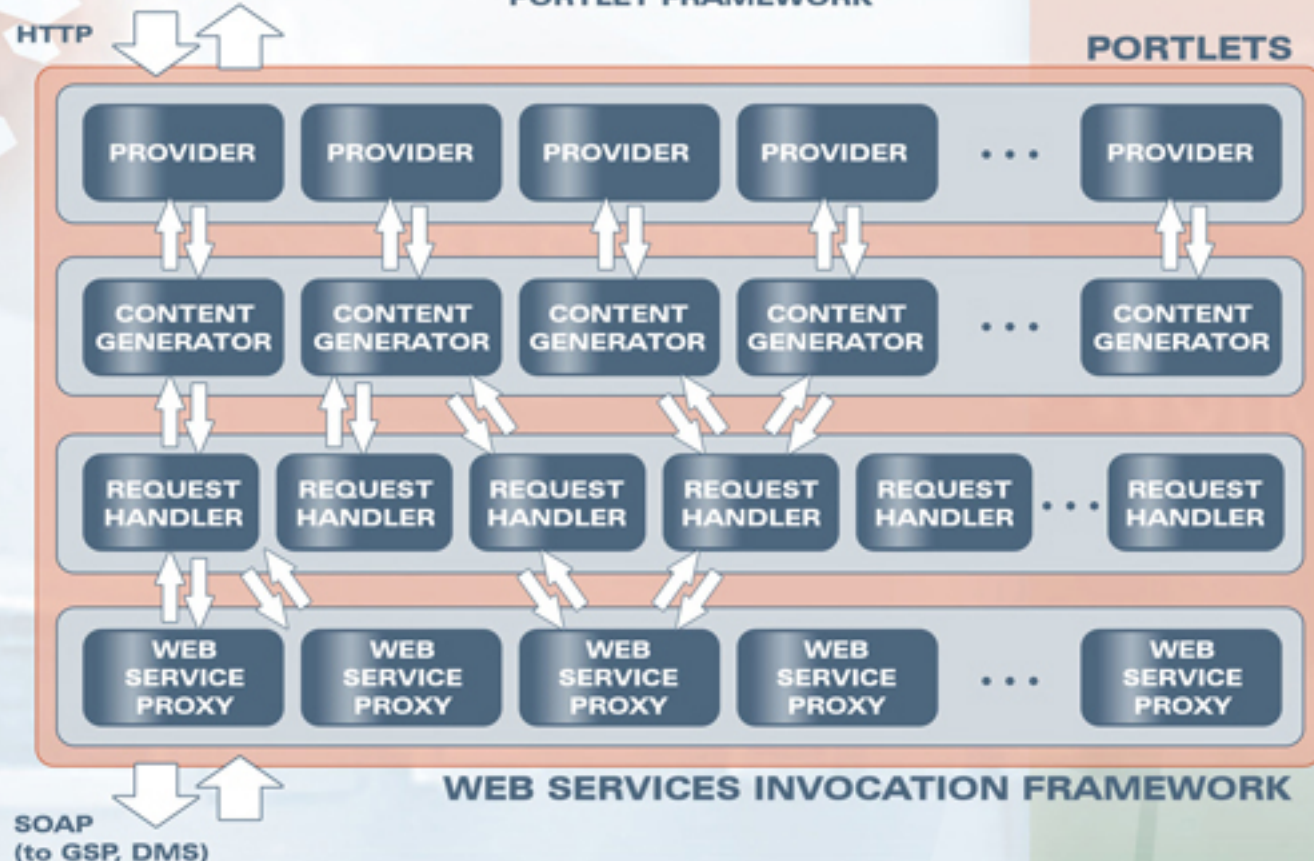- install portlets in any portal framework

PROGRESS GPE
GRID PORTAL ENVIRONMENT

users

- GRID SERVICE PROVIDER (GSP)
- SOAP
- WEB PORTAL (WP) / PORTLET FRAMEWORK
- SOAP
- FTP
- SOAP
- GRID RESOURCE BROKER (GRB)
- SOAP
- DATA MANAGEMENT SYSTEM (DMS)
- Grid FTP
- GLOBUS

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.

PROGRESS PF
PORTLET FRAMEWORK

HTTP

PORTLETS

| PROVIDER | PROVIDER | PROVIDER | PROVIDER | . . . | PROVIDER |

| CONTENT GENERATOR | CONTENT GENERATOR | CONTENT GENERATOR | CONTENT GENERATOR | . . . | CONTENT GENERATOR |

| REQUEST HANDLER | REQUEST HANDLER | REQUEST HANDLER | REQUEST HANDLER | REQUEST HANDLER | . . . | REQUEST HANDLER |

| WEB SERVICE PROXY | WEB SERVICE PROXY | WEB SERVICE PROXY | WEB SERVICE PROXY | . . . | WEB SERVICE PROXY |

WEB SERVICES INVOCATION FRAMEWORK

SOAP
(to GSP, DMS)

about: project: re: architecture: progress project

PROGRESS

e-science

POZNAN

PROGRESS:PF
PROGRESS Portlet Framework

PROGRESS Portlet Framework is used to deliver portlets to access the services of the Grid Service Provider and Data Management System

The core portlets:

- *"My computing jobs" to build and submit grid jobs*
- *"Applications" to manage grid application*
- *"My data" to manage grid data*
- *"Management" to manage grid services*
- *"News" to deliver portal-like news service*

The layered component architecture of the Framework allows to reuse components of the core portlets to create new specialized application portlets

- *Facilitate use of your grid application*
- *Create an intuitive job configuration wizard for non-advanced users*
- *Enable specialized and custom visualization modules for your grid application*

Specialized application portlets:
Gaussian and DNA Assembly applications

URL: *http://progress.psnc.pl/*

contact

kbn
STATE COMMITTEE FOR
SCIENTIFIC RESEARCH

Sun microsystems

PIONIER