

## EnginFrame™ Grid Portal and Web Interface for the Platform LSF Family of Products

### Highlights

- Simple, application-oriented Web access to your grid infrastructure
- Integrated, intuitive interface to control jobs and present results
- Greater control over how jobs are submitted
- Controlled access to remote users and partners
- Fully integrated with the Platform LSF family of products

### Solution

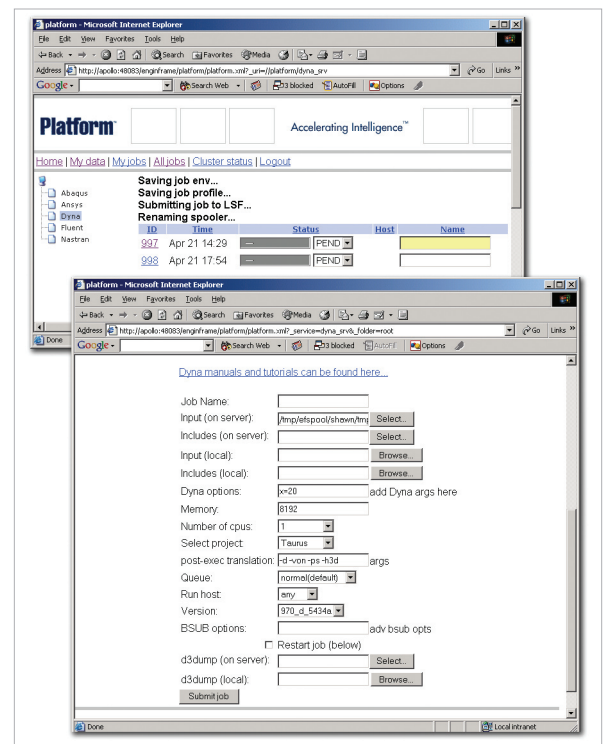
EnginFrame from NICE is a Web-based front-end for job submission, tracking and integrated data management for HPC applications and other services. By simply logging into the grid portal, users can access and control their computing and engineering resources from anywhere using standards compliant Web interface via their corporate Intranet or public Internet.

EnginFrame provides an efficient infrastructure to grid-empower both custom and commercially available software applications, for vertical markets such as Automotive, Aerospace, General Manufacturing, Oil and Gas, Electronics Design Automation, Government Research, and Education. Virtually any enterprise computing asset can be accessed through a dynamic environment that can be tailored to match the specific users' skills or access rights.

EnginFrame's core advantage is the evolutionary migration to the computing portal paradigm. Leveraging the existing investments in scripting, it can mirror most established usage patterns and complement them with powerful and flexible Web-based enhancements. EnginFrame includes support for Platform LSF, other workload management tools and EGO, Platform's framework for enterprise grid orchestration. Platform EGO virtualizes resources so that they can be used by multiple application types. By adding support for Platform EGO to EnginFrame, EnginFrame can now be monitored and managed by EGO to provide automatic failover capabilities to EnginFrame potentially negating the need for much more expensive hardware-based high availability solutions.

With several advanced Web widgets specifically designed for compute-and data-intensive activities, controlling grid-empowered applications becomes a user-friendly experience, without sacrificing user productivity when handling complex tasks. And with the remote file management built into EnginFrame you avoid unnecessary file transfers.

EnginFrame architecture and security features fit the most demanding IT environments, and can easily blend into corporate Intranets/Extranets or link to your existing enterprise portals or single-sign-on solutions. Integration with Citrix MetaFrame and other open source GUI virtualization tools can also enhance the user experience and overall value of the EnginFrame grid portal as an application delivery platform.

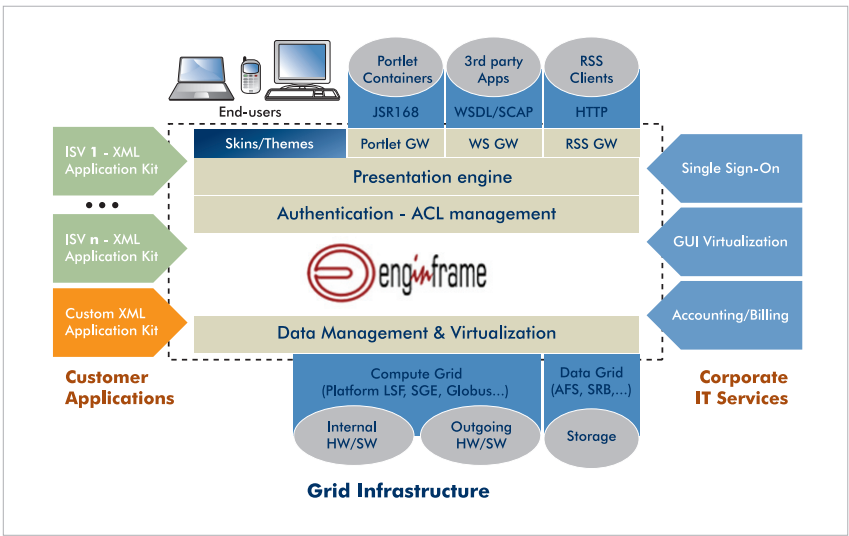


### About NICE



Leveraging distributed computing experience and a longstanding partnership with Platform Computing since 1996, NICE Inc, has developed the industry-leading EnginFrame grid portal, delivering user-friendly, highly customizable access to grid-enabled applications and infrastructures. NICE products complete the grid solution by increasing its usability and user friendliness, without sacrificing flexibility and control for the most advanced computing scenarios.

For more information, visit <http://www.nice-italy.com>



## EnginFrame Features

Feature/Edition
<b>Security</b>
Flexible authentication delegation
User mapping
Service execution under different UserIDs
Fine grained authorization system
Support for HTTPS encryption
<b>Connectivity</b>
GridML abstraction to connect to the grid
Portlet Integration kit support
Single Sign-On
Deployable agents on the network
<b>Portlet Content Publishing &amp; Rendering</b>
Integration with Citrix Nfuse
Integration with VNC
<b>Data Management</b>
Working directory virtualized via the "spooler" concept
Access to user data outside the spoolers
<b>Usability</b>
Flexible remote file/item browsing
Multiple File Upload applet
Correlation between job & data
<b>Performance and Scalability</b>
Service output caching
Support for Web farms
Dynamic on-demand loading of spooler data
Fault tolerance of the EnginFrame Server

## Application Integration

Using a flexible and reusable XML interface definition, EnginFrame can integrate with virtually any application that is submitted to a grid. Sample applications include:

Vendor	Product	Type of Integration
ANSYS	ANSYS	Submission, MPI Parallel
Fluent	Fluent	Submission, MPI Parallel, GUI for convergence
ABAQUS	ABAQUS	Submission, MPI Parallel, implicit and explicit
LSTC	LS-DYNA	MPI Parallel, Checkpoint
MSC.Software	MSC.Nastran	Submission, MPI Parallel
Schlumberger	ECLIPSE	Submission, MPI Parallel

## EnginFrame Supported Systems

### EnginFrame Agent and Server

Architecture	Java VM
Linux 2.4.x (IA32, IA64, AMD64)	Sun J2SDK 1.4.2
Linux 2.4.x (Itanium2)	Sun J2SDK 1.4.2
Solaris 8 (UltraSPARC)	Sun J2SDK 1.4.2
AIX 5.1 (PowerPC)	IBM JDK 1.4.2
HP-UX 11 (HPPA, Itanium2)	HP-UX Java SDK 1.4.2

### Supported Infrastructure

Operating System	Web Browser
Linux	Netscape 7.2, Firefox 1.0, 1.5, 2.0
Windows	MSIE 5.0+, Netscape 7.2, Firefox 1.0, 1.5, 2.0
Solaris, AIX, HP-UX	Netscape 4.7x, Netscape 7.0



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