



What's New in Version 5.0

EnginFrame 5.0 provides a powerful but lightweight set of optimization and rationalization solutions for accessing computing resources. The key updates and features for this release focus on three core values, **Productivity**, **Collaboration** and **Integration** —with an emphasis on helping organisations, people and infrastructures work more efficiently together to get more done in less time.

- **Productivity:** Improved at every level - Web 2.0, User friendliness, Application publishing, Job-Data integration, Data Life Cycle - thanks to features such as built-in support for AJAX and Google™ Web Toolkit (GWT), Context-sensitive On-line help.
- **Collaboration:** An extended list of scheduling plug-ins and standard protocols means broader support for HPC systems.. Improved large file support, security, authorization, team-management and usage-tracking plug-ins to suit different organizations while still ensuring ease of use regardless of geographic distribution - be they users or resources.
- **Integration:** New features that include SOA / WebServices, Microsoft CCS, Java scriptlets, AJAX, Google™ Web Toolkit (GWT), remote spooler support - Aimed at simplifying integration of distributed compute resources and information.

EnginFrame 5.0 includes a large number of new features covering a broad spectrum of functionality. The following list highlights just some of the more important improvements, targeting both IT administrators and users / service developers.

Key improvements for IT administrators

Feature	Benefits
Windows Server 2003 and CCS/CCE support	<ul style="list-style-type: none">- Build 100% Windows computing systems- Improve user experience and security of Windows Compute Cluster Server
Secure link between Server and Agent(s) , via RMI over SSL	<ul style="list-style-type: none">- Increase end-to-end security for complex network topologies
Support for LSF7 and EGO	<ul style="list-style-type: none">- Smooth integration and higher reliability
Additional scheduling plug-ins for PBS/Pro, LoadLeveler, gLite	<ul style="list-style-type: none">- Broader support for HPC systems
Enhancements to support files above 2GB	<ul style="list-style-type: none">- Enable submission or retrieval of large files as input or output of compute jobs
Support for compressed HTTP request and response	<ul style="list-style-type: none">- Increase performance of data I/O with between client and server over slow connections
Enhanced plug-in and transaction logging	<ul style="list-style-type: none">- Simplify tracking of plug-in activities and troubleshooting
Token administration services	<ul style="list-style-type: none">- Simplify token monitoring and administration
Support for JDK 1.5	<ul style="list-style-type: none">- Broader platform support and higher performance

Key improvements for users and service developers

Feature	Benefits
Java-based scripting languages (Scriptlets) support	<ul style="list-style-type: none"> – Enable writing services in Java, JavaScript, Python, etc. – Easy integration of existing Web applications – Simplify RDBMS integration, WebServices and other Java-enabled back-ends
AJAX-based call-backs within services	<ul style="list-style-type: none"> – Enable rich and highly interactive interface development – Options can be dynamically changed based on server-side logic (e.g. OS can influence queue, memory, parallel options, etc.) – Enable dynamic pre-processing of data to pre-fill options
Built-in support for Google™ Web Toolkit (GWT)	<ul style="list-style-type: none"> – Enable integration or migration of applications developed for GWT
Access Control Lists (ACL) based on session variables Apply ACL on XSL	<ul style="list-style-type: none"> – Enable context-sensitive service offerings – Add flexibility to role-based ACL – Dynamic presentation based on ACL
Web Services support for files above 2GB	<ul style="list-style-type: none"> – Enable handling of large files using a programmatic approach
Single File Upload (SFU) applet	<ul style="list-style-type: none"> – Improved visual feedback
Directory tree upload within the MFU applet	<ul style="list-style-type: none"> – Speed up uploading of many files, structured in complex hierarchies
Built-in remote spooler support	<ul style="list-style-type: none"> – Allow user to view data in execution directory, scratch disks or other remote locations
New graphical installer , with text fall-back	<ul style="list-style-type: none"> – Simplify installation on all platforms – Guided initial customization to test basic functionality
Context-sensitive On-line help	<ul style="list-style-type: none"> – Introduce key features to new users
Improved Layout functionality	<ul style="list-style-type: none"> – Insert your own XHTML code within service forms – Change form backgrounds, size, fonts and more – Group, position, and apply JavaScript to options

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