

Why Display Manager?

- **Eliminate big data movement:** Collaborate easily from multiple locations by viewing & editing data without file downloads
- **Save time and improve efficiency:** One client estimated a 100% project efficiency increase thanks to Display Manager
- **Improve productivity:** Engineers instantly collaborate on projects and can take corrective action without downloading huge results files for running jobs
- **Optimize resource utilization:** Consolidate hardware and software centrally
- **Reduce IT overhead for engineers:** Let your experts focus on their work and not on data movement issue

“Display Manager is our most significant functionality update since the move to HPC itself. In most cases we are saving a full day of time or more. We get *instant feedback, make the change and have enough time to view the results the same day.*”

- PING Golf



Display Manager™

Remotely Visualize Your Datasets for Rapid Collaboration and Innovation

Altair’s Display Manager, a web-based portal within the integrated PBS Works suite of high-performance computing (HPC) products, provides users the ability to remotely visualize and interact with their data and applications, even across challenging data latency networks.

Customers choose Display Manager to:

- Visualize large datasets instantly -- without data transfer -- via a simple, powerful Web-based interface
- Consolidate hardware and software resources
- Gain a secure and traceable way to access intellectual property and ensure IP protection for global teams (data never leaves a desired location; only pixels leave)
- Reduce software maintenance and deployment costs
- Provide easy and accessible collaboration tools for global teams, fully exploiting internal knowledge and skills via shared sessions
- Co-locate graphic, computing and storage resources for applications that are not only graphical, but also compute- and data-intensive
- Refocus IT management efforts where they are most needed

New in 13.0

- Display Manager can now control sessions and applications launched on Windows execution hosts through the tight integration with Microsoft Remote Desktop Protocol (RDP) and HP Remote Graphics Software (RGS).
- Ability to track sessions and resources usage on Windows.
- More control over session timeout and expiration.
- Greatly reduced the amount of configuration needed to publish an application through Display Manager.
- The redesigned GPU and resource management reduces dependencies on the workload manager and the file system configuration.
- The web browser based client allows to dynamically resize remote Linux desktops to match the actual viewer window area.

Key Capabilities:

Integrations: Display Manager is integrated with all Altair HyperWorks and PBS Works applications. Display Manager is also integrated with HP Remote Graphics Software (RGS) and Microsoft Remote Desktop Protocol (RDP) for an optimized remote experience.

Rich Experience: Adaptive data compression algorithms based on network bandwidth and latency provide a rich experience, even on challenging networks

Optimized Resource Management: Integration with PBS Professional allows optimized provisioning of applications on graphical and computing resources, for maximum utilization

Open Architecture: Allows usage of third party applications without the need for additional software development

Benefits

Display Manager is a convenient way to deliver application performance and data security while getting the most out of your IT infrastructure.

Benefits include:

- IP protection for highly global work teams as data never leaves a desired location (only pixels leave)
- Reduced prohibitive data movement times between servers and local machines
- Co-locate graphic, computing and storage resources for applications that are not only graphical, but also computing and data intensive
- Fully exploit a company's internal knowledge and personnel skills through the use of shared collaborative sessions
- Focus IT management efforts and resources where they are the most effective

Instantaneous Application Invocation:

- Clean, easy to use and application-specific interface that requires no learning, simplifying management, and allowing engineers to do engineering

Flexible Application Resource Allocation:

- Accommodates complex application setup through Compute Manager integration for advanced application specific requirements

Resiliency:

- Continuity of remote application sessions across network connectivity disruptions

Manageability:

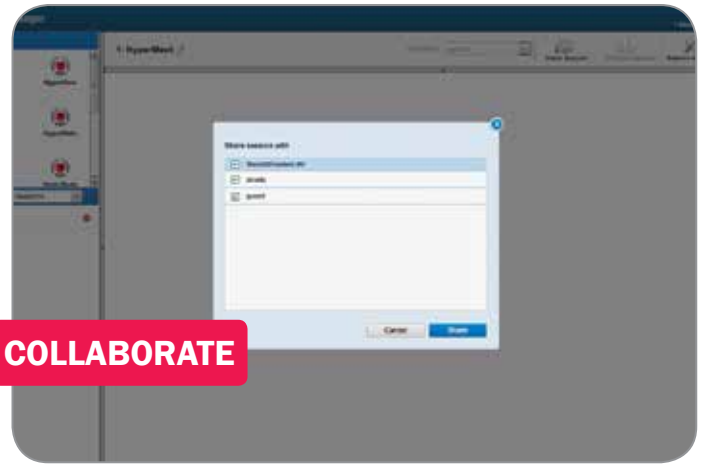
- Applications can be easily added and removed. Resource monitoring and accounting integrates well with PBS Professional and PBS Analytics

Collaboration:

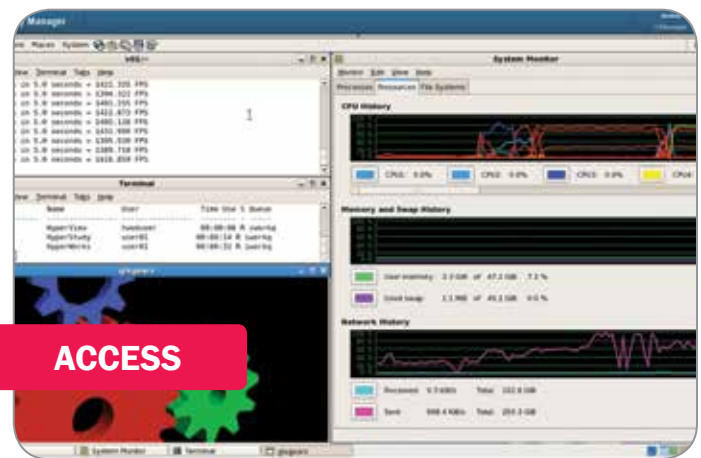
- Co-operate with colleagues by sharing session views and controls cross WAN (wide area network) links

Supported Platforms

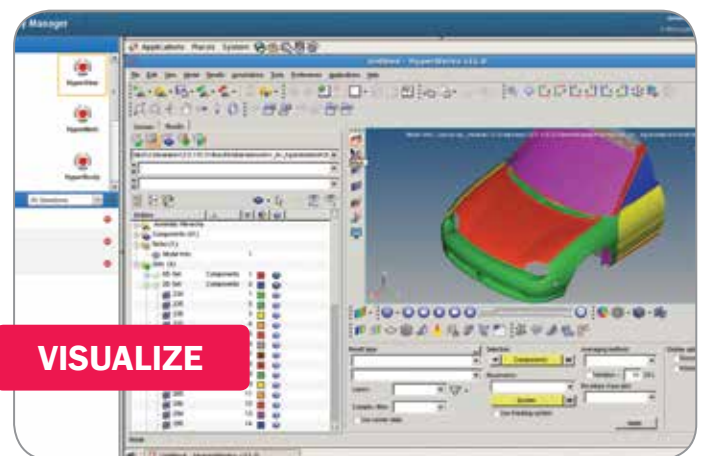
- **Operating Systems (Server)**
 - Windows Server 8
 - Windows Server 12
 - RHEL 5,6,7
 - SLES 10,11,12
- **Supported Browsers (Clients)**
 - Internet Explorer 8,9,10,11
 - Chrome 41
 - Firefox ESR 38
 - Safari 8
 - Note: Java extensions are needed



Collaborate with and share your simulations with other users over the secured network



Extend the reach of your homegrown or 3rd party applications



Remotely visualize your simulation with the easy to use, Web-based portal



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For more information about Display Manager, visit www.pbsworks.com to request a quote or contact an account manager.

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