

## Display Manager v12 Highlights

- **Zero Client:** No local dedicated software installation needed, all you need to connect and visualize is simply a Web browser
- **Zero Data Movement:** Only pixels are transferred. Prohibitive times associated with the data transfer are eliminated
- **Rapid Collaboration:** Instantly collaborate on large volumes of data in the comfort of a familiar interactive application, anywhere and anytime
- **Rich Experience:** Adaptive data compression algorithms based on the network bandwidth and latency provides 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

## 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) solutions, provides users the ability to remotely visualize and interact with their data and applications, even across challenging data latency networks.

### Display Manager Meets a Growing Demand for:

- **Cloud Computing:** Display Manager enables seamless remote visualization of Big Data, providing users with optimized job performance.

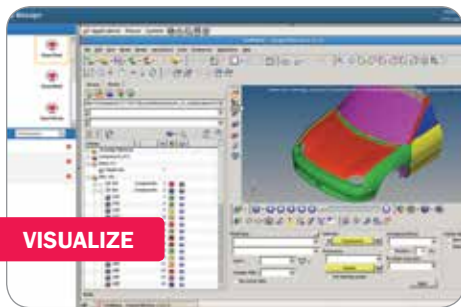
HPC Software-as-a-Service (SaaS) Clouds are being powered by the full PBS Works suite, including Altair's own HyperWorks On-Demand. Altair offers a full suite of tools for building technical computing clouds:

- **PBS Professional:** Secure, HPC-focused, workload manager and job scheduler
- **PBS Analytics:** Reporting and analysis tools
- **Compute Manager:** Software-as-a-Service (SaaS) gateway portals
- **Display Manager:** Remote Visualization solution

### Ideal for Customers Who:

- Want a simple, but powerful Web-based interface for visualizing large datasets.
- Need to consolidate hardware and software resources.
- Desire a secure and traceable way to access their intellectual property.
- Want to make IT processes more efficient.
- Require easy and accessible collaboration tools for their globalized infrastructure.
- Want to reduce software maintenance and deployment costs.





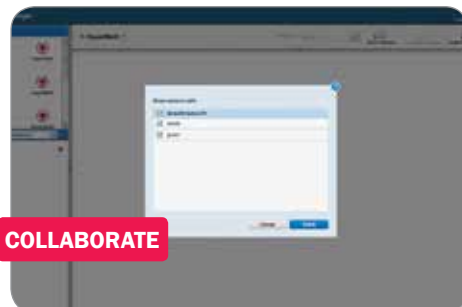
## VISUALIZE

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



## ACCESS

Extend the reach of your homegrown or 3rd party applications



## COLLABORATE

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

## 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

## Capabilities

Display Manager is fully integrated with the integrated PBS Works suite to deliver a rich user experience that goes beyond remote visualization.

### 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

## Installation & Deployment

Altair recognizes the importance of making software solutions easy to deploy, configure and use. As a result, Display Manager is offered as an out-of-the-box product with minimal configuration required.

Additionally, Altair's Enterprise Solutions Group offers professional services that span from basic installation on clients and / or servers, to the complete setup of a turn-key visualization and HPC private cloud solution.

## Supported Platforms

- **Operating Systems (Server)**
  - All major Linux 64bit platforms supported:
    - SLES 10/11
    - RHEL 5/6
    - CentOS 5/6
  - Proper GPU is required
- **Supported Browsers (Clients)**
  - Windows: Firefox 17 ESR, Chrome 24 and Internet Explorer 8 and 9
  - Linux: Firefox 17 ESR, Chrome 24
  - Java extensions need to be available in browser



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**For more information about Display Manager, visit**

**[www.pbsworks.com](http://www.pbsworks.com) to request a quote or contact an account manager.**

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