



A Platform for Innovation™



# Altair® Data Manager™

Where Is Your Product Performance Data?

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Altair Data Manager is the most comprehensive product-performance data management solution in the marketplace. It allows users to capture, organize and manage data throughout the product development process - from interfacing with CAD/PDM systems and assembly management solutions to job submission systems. Altair Data Manager brings tremendous value and allows organizations to build the solution incrementally, thus minimizing risk.

## Benefits

### Engineers

- Organized data for work in progress.
- Access to latest CAE, CAD and test data.
- Ability to track complex relationships and lineage information for data sets.
- Access to data from any location.
- Comprehensive search capabilities to locate current and legacy data.

### Managers

- Access to information for rapid decision-making.
- Track all simulation projects.
- Dashboards to review product performance metrics.
- Provides visibility to CAE processes.

### IT Departments

- Data tagged to enable search and purging of unnecessary data.
- Data archiving based on policy for accessing off-line data
- Data security based on corporate roles and groups.

### Customers and Suppliers

- Access to information, reports and results.
- Access to project status.
- Data security and integrity.

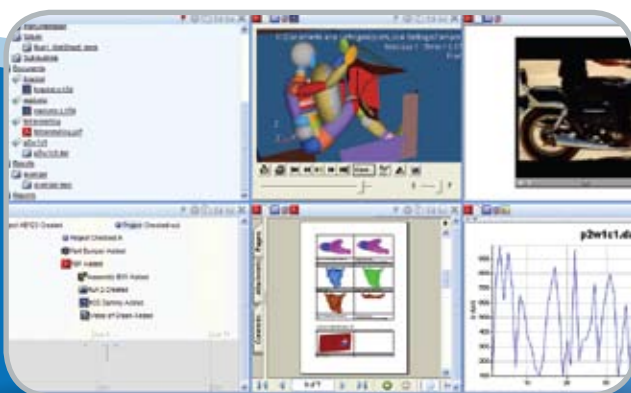
## Capabilities

**COTS:** Altair Data Manager is a commercial, off-the-shelf (COTS) solution that is self-contained, can work independently and can integrate with any existing PDM system, database and/or other enterprise system.

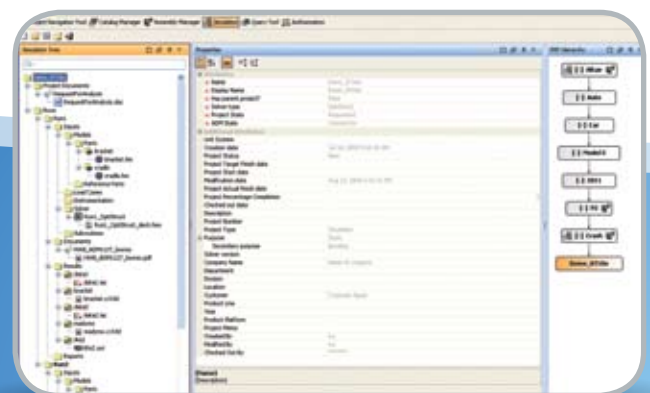
**Scalability:** The solution is highly scalable and capable of supporting thousands of users.

**Performance:** The solution can be configured for optimal performance based on usage pattern, data size, hardware, and network infrastructure.

**Technology:** Altair Data Manager includes Oracle runtime and can interface with existing instances of DB2 and MSSQL. Server-side components are COM- and .Net-based and the user clients are Java-based.



Web Portal Dashboard



Project Management Simulation Module

**Security:** Altair Data Manager's robust security model implements role-based access to data with a complete audit trail.

**Data Connections:** A detailed and thorough schema captures complex relationships, as well as tracks data origin and downstream usage.

**Neutral Solution:** Altair Data Management is independent and compatible with all CAE pre- and post-processors and test-data management systems.

**Open Architecture:** Altair Data Manager is a stable, robust and open-architecture client-server solution that enables tight integration with desktop applications.

**Process Automation:** Altair Data Manager's stable, robust integration and automation framework allows for implementing standardized-process automation solutions, including load-case set-up to manage simulation data automatically. Also, high-level workflows can be implemented to capture product development processes.

**Search and Query:** Users can perform complex queries, such as "where used", to locate projects and design iterations that use a specific CAD or CAE model.

**Flexible Data Structures:** Altair Data Manager's flexible data structure provides easy data mapping from existing data management practices.

## Altair Data Manager Modules

### Web Client

The data-aware containers of the Web portal allow users to view 3D models, documents, dynamic plots, etc., by simple drag-and-drop operations. The secure Web client is based on latest Web2.0 technologies, leveraging AJAX to deliver desktop-like usability on the Web.

### Assembly Manager

Altair Data Manager supports an integrated approach to CAE Model Assembly Management. Assembly Manager allows users to process a CAD bill of materials (BOM), generate CAE assemblies and sub-assemblies, and automatically save this information in Altair Data Manager. This ensures that all stakeholders are working with the most current models and assemblies.

### Load Case Management

Altair Data Manager directly integrates with industry automation frameworks such as Altair Process Manager. This functionality automates and standardizes load-case set-up and automatically manages data flowing through work processes.

### Desktop Client

This powerful client is a stand-alone application that allows users to manage data from the desktop without launching pre- and post-processing applications.

### Security Module

Altair Data Manager provides a fine grain security model based on user/role/group. The security module allows administrators to easily assign users to appropriate roles and groups. The security model can be used to restrict access to data and to configure the presentation layer the end-user views. Using this module, administrators can also create multiple vault locations, physically segregating sensitive data.

### Query Module

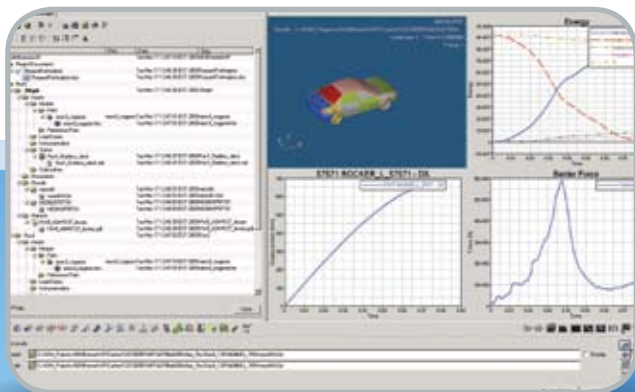
Query module is a comprehensive search and query tool. Users can easily find projects, iterations, documents and analysis data using full text search or by selecting appropriate meta-data/attributes.

### CAE Pre- and Post-Processing Client

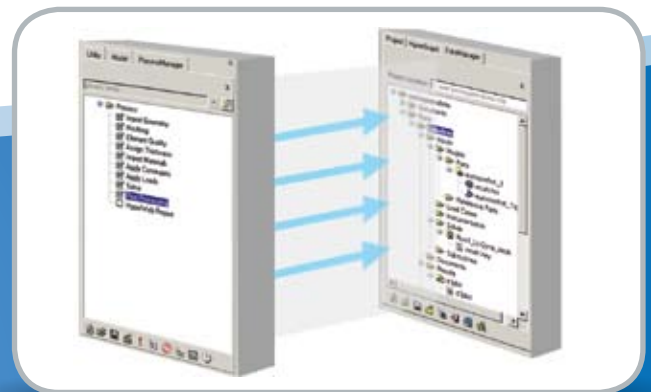
Altair Data Manager's open-architecture design allows tight integration with commercial/proprietary CAE pre- and post-processing desktop applications, including Altair HyperWorks. This flexibility provides seamless data-management capabilities directly from within any CAE environment.

### BatchMesh Scheduler

Altair's BatchMesh Scheduler allows users to schedule a series of CAD files to be meshed by any batch-meshing engine, including Altair's BatchMesher. The resulting finite-element model files are automatically cataloged in Altair Data Manager and available to load-case set-up and model assembly processes.



*HyperWorks Integrated Data Management Client*



*Process-Driven Data Management*



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