Deep Server™ Enterprise Edition

Business Drivers

- Optimize processes that accelerate time to market
- Increase product and services revenues
- Lower product communications costs

Introduction

Today, manufacturing companies are faced with several challenges that are causing them to revisit the way they bring products to market. Products are becoming more complex, designs are short-lived, competition is global, costs are under scrutiny and margins are thin.

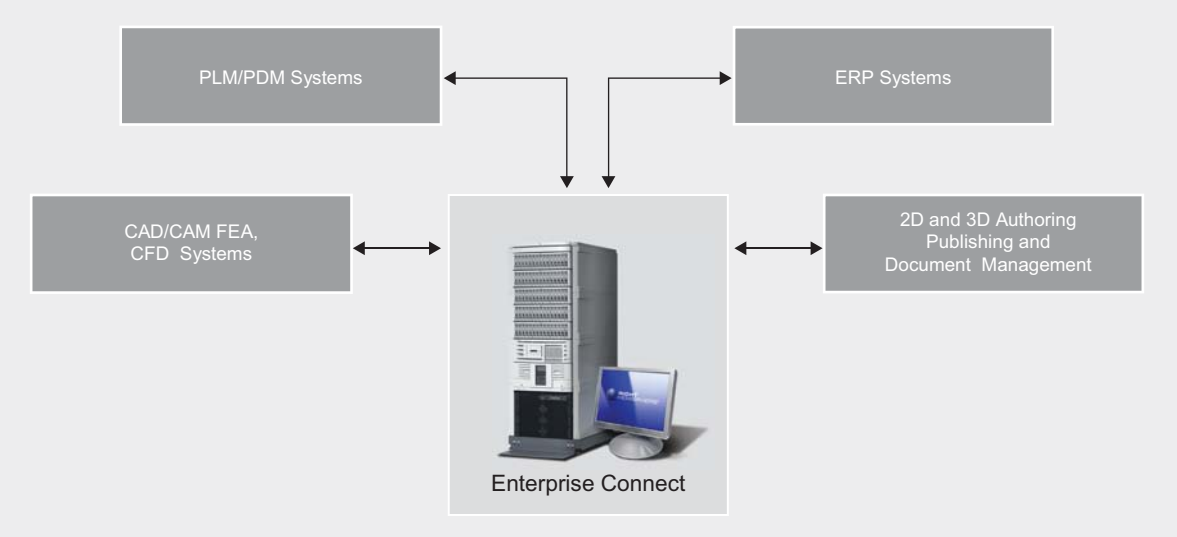
The influx of 3D design in Engineering has improved design process and efficiency, but the design assets they build are not being effectively utilized in the downstream processes required to deliver products. To meet today's challenges, leading manufacturing companies are looking for ways to leverage these design assets through their existing IT infrastructure. Optimizing product lifecycle processes through the adoption of a more Visual Manufacturing environment. >>>

Existing methods of delivering product-related information, document and graphic media are not keeping pace with the demands for rapid innovation and global collaboration requirements. Decisions need to be made faster, across a wider range of departments and geographic locations and delivered through multiple and concurrent mediums, like the web, business applications, secure document management portals and mobile devices. The challenge facing businesses in many sectors is how to optimize delivery processes without radically altering the daily work and leveraging existing investments in CAD and ERP systems to optimize mission critical business processes such as sourcing, manufacturing, marketing and customer support.

Integrate your product development and communications applications

Computer Aided Design (CAD) and Engineering Product Data Management (PDM) solutions have helped to improve dataflow and efficiency in engineering. But the need to communicate to a much wider and larger audience remains. >>>

A solution that is easy to use and access is required; one that hides the complexity of data integration and publishing from the user. Data must be integrated from multiple systems and delivered in optimum packages for collaboration, communication and decision making.



Deep Server allows companies to source product data from existing CAD and PDM systems, supply product graphics to leading ECM, DCC and DEP applications.

Introducing Deep Server Enterprise Edition

Already recognized as the visual communication, collaboration and publishing standard for many of the world's top manufacturers. Deep Server Enterprise Edition integrates disparate product data readily available in corporate CAD, PLM >>> and ERP systems and then automatically delivers this intelligent product information into commonly used business documents, file formats and directly into business applications for secure downstream use anytime, anywhere.

Deep Server Enterprise Edition helps companies:

- Make the most of their design assets
- Leverage their existing IT infrastructure investment
- Optimize their product lifecycle

All accomplished through these advanced solution capabilities

Generation of Derivative Product Graphics On-Demand. Deep Server automatically generates and securely stores the correct versions of the 2D and 3D product graphics you need to communicate your products, in the format needed, on demand to embed in the applications you choose.

Process Automation to Replace Manual Workflows. Unlike today's time and labor intensive manual 2D and 3D document authoring processes, Deep Server automates these processes to deliver a range of >>> intermediate graphics, finished graphics, and even finished documents all from accurate, up-to-date engineering models.

Version Controlled Updates of Visual Product Content. As your products and configurations evolve, Deep Server automatically updates impacted product graphics across sourcing, sales and service without having to track down and manually change every down-stream usage.

Deep Server Enterprise Edition. Key requirements

Integration

Deep Server Integration Capabilities

Source product data from existing CAD, PDM, and ERP applications:

- Reuse CAD models from Autodesk, Dassault Systems, Solidworks, PTC, UGS and more
- Capture, integrate and manage additional product manufacturing attributes such as PMI and GD&T from multiple sources
- Schedule data updates based on business rules

Supply visual product documents and files to leading ECM, DCC, and DEP applications:

- Enterprise Content Management applications from EMC Documentum, IBM, Interwoven, Microsoft, Open Text, and Vignette >>>
- Digital Content Creation tools such as 3ds max, Cinema 4D, Deep Creator, Illustrator, Lightwave 3D, Maya, Photoshop, XSI, etc.
- Dynamic Enterprise Publishing applications from Adobe and Arbortext

Managed Integration:

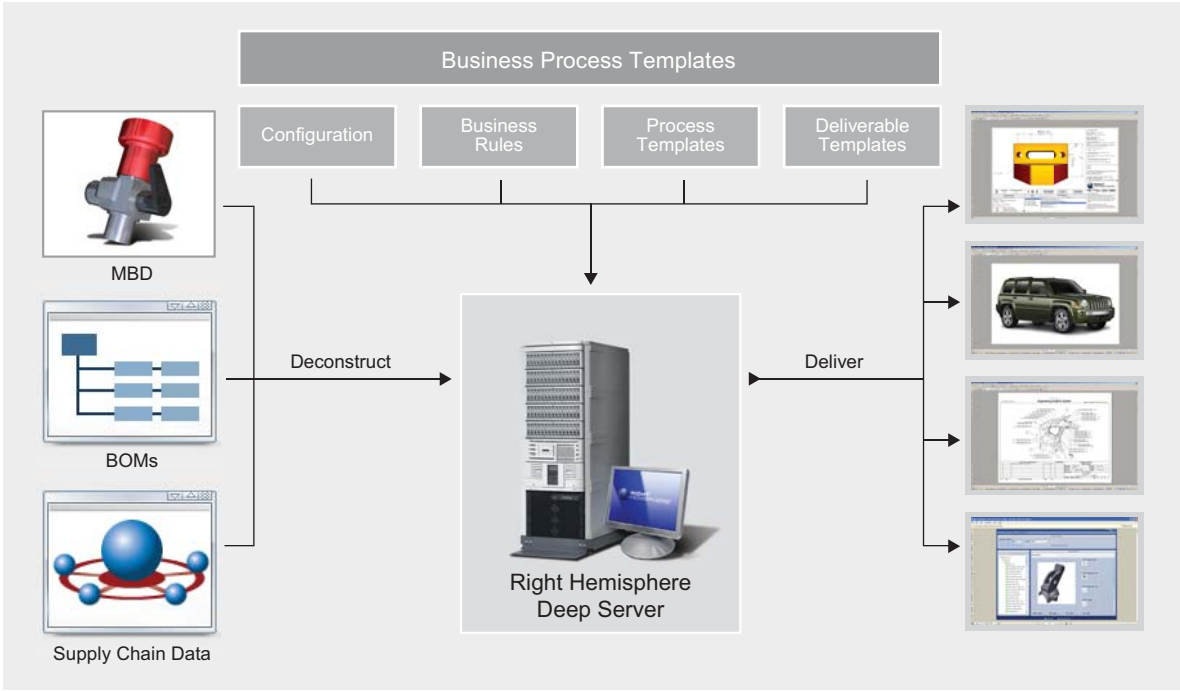
- Transaction processing, connection pooling and security
- Service bureau operation with batch oriented processing
- Open APIs – Industry standards such as J2EE, HTTP, SOAP, LDAP and XML

Automation

Deep Server Automation Overview

The Deep Server Process Designer provides tools to graphically define data replication, aggregation and optimization processes. Automated and rules based data synchronization provides material cost savings and greatly speeds the production of product related media. Sophisticated templates enable complex document authoring generated automatically or linked to manual processes to speed content production. >>>

Deep Server synchronizes product graphics with CAD models as they are designed allowing product communications processes to work concurrently with product development. As your products evolve, Deep Server automatically updates your product related media.



Efficient product media management and publishing allows manufacturers to source, sell and service products more effectively by bridging the product development and product communication worlds.

Deep Server Automation Capabilities

Transform CAD models into lightweight product graphics automatically:
- Transform complex CAD models maintaining full manufacturing and geometric dimensioning and tolerance information (PMI and GD&T)
- Convert large CAD models rapidly allowing visualization of even the largest assemblies.
- Optimize graphical models for downstream use in multiple levels of detail for a wide variety of applications from assembly instructions, to rendered marketing and training materials

Author multiple intermediate and finished product graphics automatically: >>>
- Multiple graphics types including technical illustrations, non-photorealistic and photorealistic images, Virtual Reality, 3D animations and more
- Select from over 80 graphics formats including vector, raster, and high resolution
- Utilize multiple isometric an orthographic views

Associatively update product graphics automatically:
- Manage the versioning of authored 3D content as original design data changes
- Update graphics in linked publications
- Communicate changes via E-mail

Collaboration

Utilize Deep Access* to facilitate collaboration across organizations or within project workgroups.

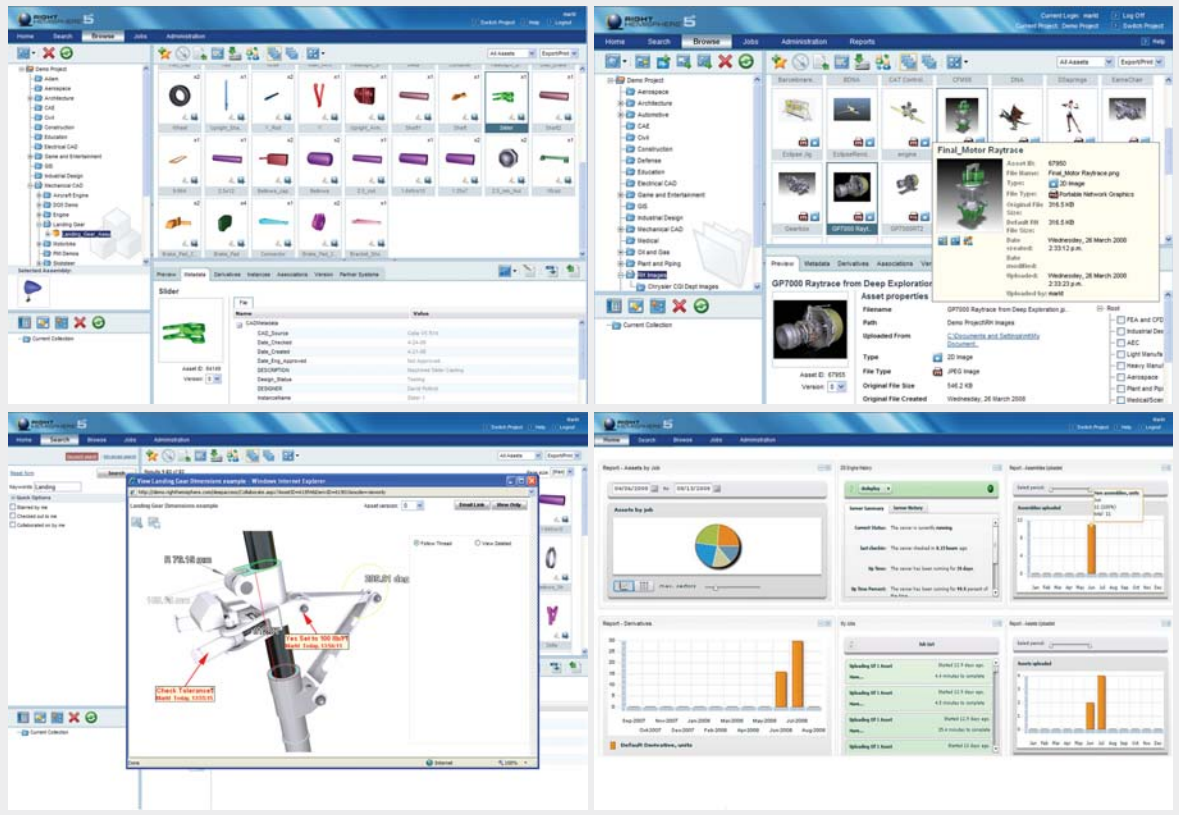
Deep Access™ Content Management Capabilities

Store 2D & 3D product graphics in unified repository:
- Store both lightweight graphical models and derivative graphics including technical illustrations, non-photorealistic and photorealistic images, 3D animations, PDF documents and more
- Access any data or associated data from an easy to use application interface.
- Control security and access options across parts, assemblies and projects

Search or browse the repository to locate existing graphics:
- Find graphics fast via search and / or intuitive tree folder browsing >>>
- Classify graphics by metadata, project, category or customized folders
- Synchronize with Digital Asset Management or PDM control systems

Create additional product graphics whenever needed:
- Use Deep Exploration CAD Edition to transform and author new or derivative graphical models and store them within Deep Server
- Run Deep Server processes to automatically generate new graphics
- Run Deep Server processes to associatively update existing graphics

*** Deep Access is available as an add-on module to Deep Server-based solutions.**



Store 2D and 3D product graphics in a unified repository, easily search and navigate through thousands of graphics to locate the one you need and create new product graphics on demand.

The Deep Server™ Editions

Right Hemisphere's Deep Server is a highly scalable and robust platform technology that is available is different configurations to meet company specific capability and scalability needs.

- ### Deep Server Enterprise Edition
  Enterprise class visual product communication & collaboration backbone.
- ### Deep Server Workgroup Edition
  A comprehensive and affordable visual product communication & collaboration solution scaled to support corporate workgroups and SMB's.
- ### Deep Server View Edition
  Enables 3D viewing of intelligent product information in SAP PLM and other 3rd party products that OEM and / or integrate Right Hemisphere's Deep View™ technology.

About Right Hemisphere

Right Hemisphere is the leading provider of enterprise visual product communication, collaboration and publishing solutions. The company's software and solutions help Global 1,000 manufacturers to optimize their mission critical business processes such as sourcing, manufacturing, marketing and customer support. The software does this by integrating disparate product data readily available in corporate CAD, PLM, and ERP systems. >>>

It then automatically delivers this intelligent product information into commonly used business documents, file formats and even directly into business applications for secure downstream use anytime, anywhere. Founded in 1997, Right Hemisphere is a privately held, venture-funded corporation based in Silicon Valley and Auckland, New Zealand. For more information please visit **www.righthemisphere.com**.