

About mental images

- Founded 1986
- World's largest 3D component software team
- Fundamental R&D, patented technologies
- Academy Award® winning product
- NVIDIA subsidiary since 2007









mental images Markets

- Digital Content Creation (DCC)
 - Motion Picture Studios
 - Interactive Entertainment Developers and Providers



- Automotive
- Aerospace
- Industrial Engineering
- Architecture and Spatial Management
- Scientific Computing





















mental ray® OEM Customers

Integrated into over 10M seats of leading CAD and DCC tools:



- Autodesk
 - AutoCAD®
 - Autodesk® Inventor®
 - Autodesk® Revit®
 - Autodesk® 3ds Max®
 - Autodesk® Maya®



- CATIA® V4 and V5
- SolidWorks®
- AVID
 - Softimage® | XSI®
- Others





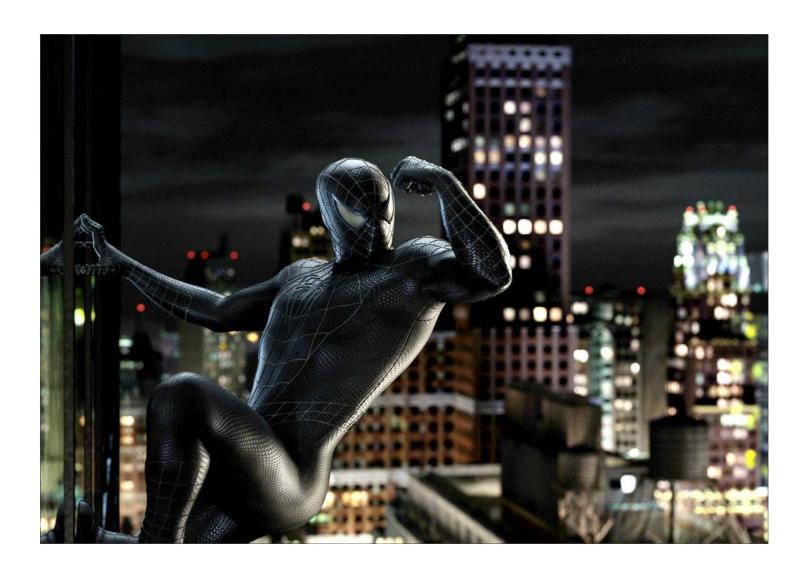








mental ray® at work





mental ray® at work





mental ray® at work

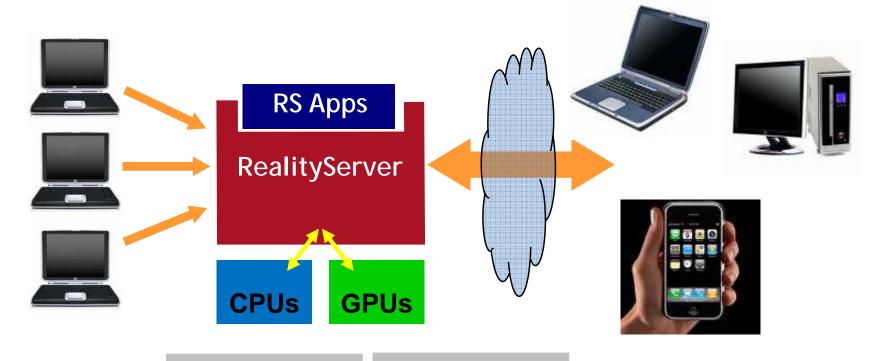


mental ray® live



RealityServer® Overview

A scalable 3D Web Services Platform



CAD and DCC systems

System Integration

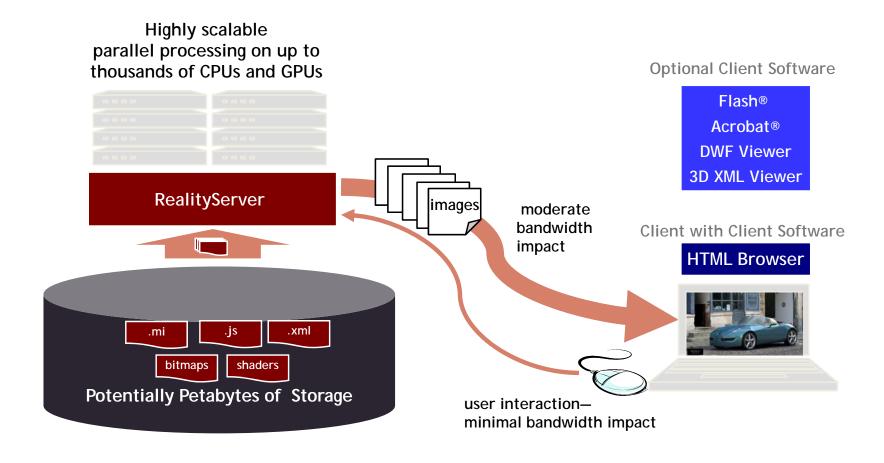
Deployment & Hosting

Enterprise Integration

Any mobile or fixed client with Web or network access

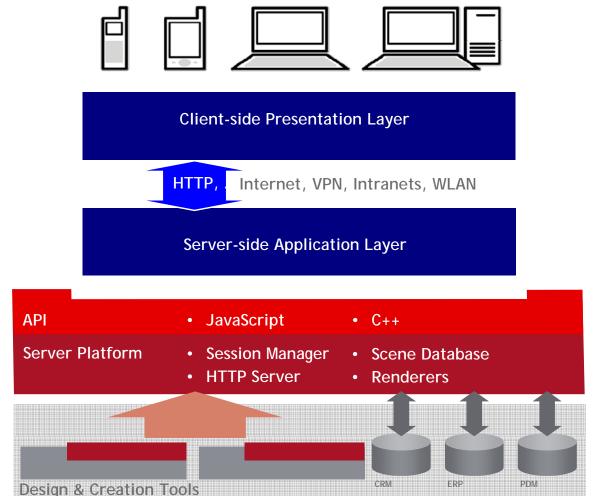


RealityServer Architecture 1/4





RealityServer Architecture 2/4



Custom Application Design, Development and System Integration

RealityServer Platform

Resource Infrastructure

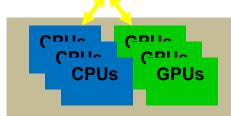
(Hardware and Enterprise Software)



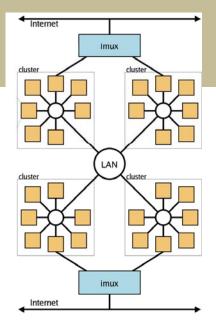
RealityServer Architecture 3/4



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- Self-organizing clusters of hosts
- Multiple symmetric hosts
- Multiple network connections
- IP Multicast



Resource Infrastructure

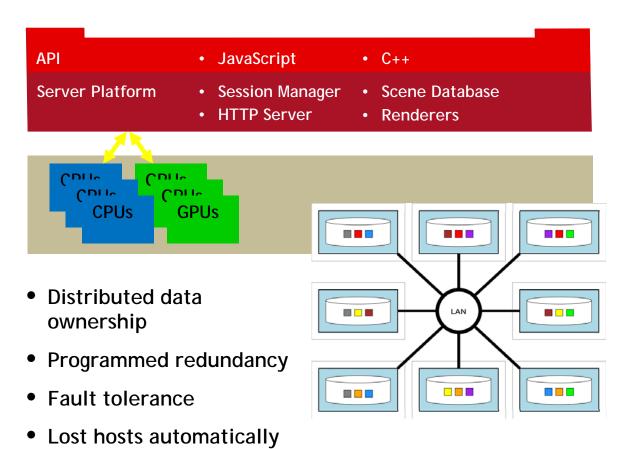
(Hardware and Enterprise Software)

RealityServer Platform



recovered

RealityServer Architecture 4/4



RealityServer Platform

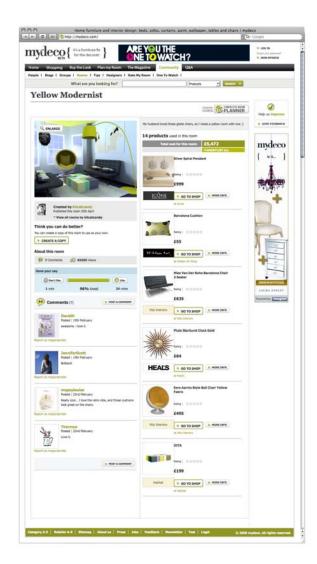
Resource Infrastructure
(Hardware and Enterprise Software)



RealityServer @ mydeco.com

- B2C configuration platform for highly customizable products (interior decoration)
- 30,000+ 3D models from several hundred vendors
- Using simple 2D modeling and 3D model representation
- Supports user-generated content
- Integrates with other application services (e.g. Facebook)

• Live demo ...



Data Preparation with RealityDesigner™

API • JavaScript • C++

Server Platform • Session Manager • Scene Database • HTTP Server • Renderers

RealityServer Platform

RealityDesigner ...

- ... handles scene graph
- ... supports configurations
- ... converts mental ray shaders into MetaSL shaders
- ... handles textures and environments
- ... supports multiple cameras

RealityDesigner is available for

Generic Integration

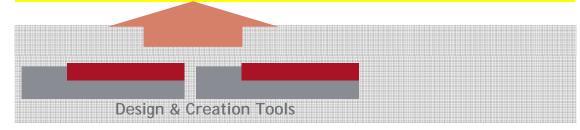
and

- Autodesk 3ds Max
- Autodesk Maya
- Softimage | XSI
- SolidWorks

Data Preparation

Resource Infrastructure

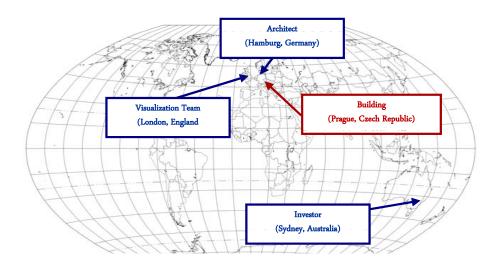
(Hardware and Enterprise Software)

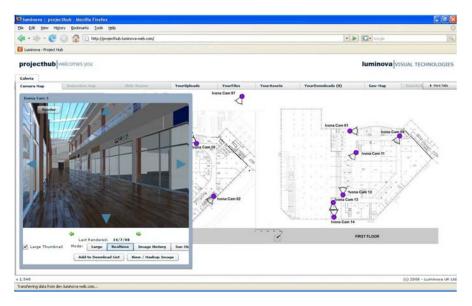




RealityServer @ ProjectHub

- Professional design collaboration across multiple sites and professions
- Easily deploy original 2D and 3D content
- Visual collaboration for improved and timely decision-making
- Live demo...

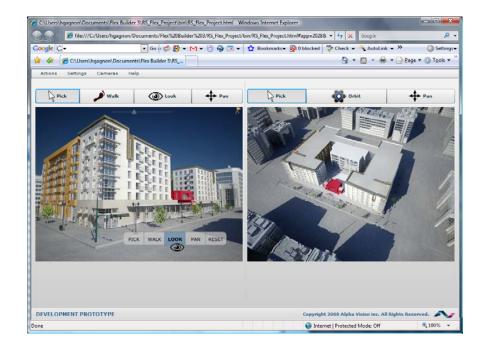






RealityServer @ KTGY

- Architecture and construction marketing solution with high quality visualization
- B2B visualization platform for interactive walkthrough of 3D buildings and cityscapes



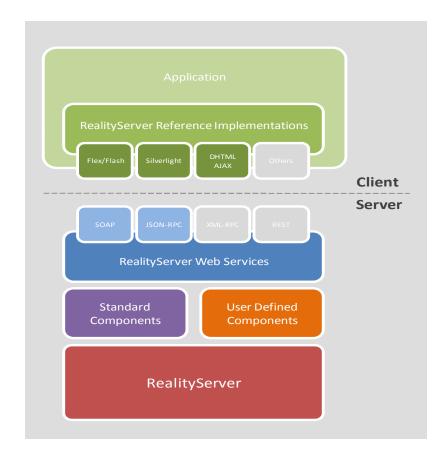
Video ...



RealityServer 2.2 Web Services

Reference implementations for common web application programming environments

- Simplify Web integration
- Supported environments:
 - Flex/Flash
 - Microsoft Silverlight
 - DHTML/Ajax
- Available from September 2008



RealityServer @ Design Review

- Highest quality, collaborative CADbased visualization
- Realtime raytracing with image-based lighting
- Multi-site collaboration with various modes of control
- IP protection
- Live demo ...







RealityServer in Summary

- Leverage your 3D assets in new web-based application services
- Protect your 3D assets through server-based Web application services
- Use available tools for straightforward application integration

Get started:

See us ... at NVISION booth # 326

• Download ... free RealityServer Developer Edition

from www.mentalimages.com/realityserver

Contact us ... in North America: Randy Ochs (<u>rochs@mental.com</u>)

in Europe & A/P: Ludwig von Reiche (ludwig@mental.com)

