

# Oracle 9iRAC

## Allegient Systems

### A CINTRA CASE STUDY

#### ▶ COMPANY PROFILE

##### COMPANY

Allegient Systems

##### TYPE OF BUSINESS

Litigation Expense Management

##### CORPORATE HEADQUARTERS

Wilton, Connecticut

##### BUSINESS NEED

High availability and scalability for the primary mission critical litigation billing application.

##### SOLUTION

Design, Deployment and Migration of the existing production database platform to a clustered Oracle 9iRAC database platform based on SUN hardware and SUN Cluster technology.

SUN Cluster 3.0

SUN e420 3.0

Dual Node Oracle 9iRAC Cluster

#### THE CHALLENGE

Cintra was enlisted to design and implement a highly available and scalable database and server architecture to support Allegient's Litigation Expense Management application. The web based Allegient System includes a comprehensive set of modules that helps their clients manage the entire lifecycle of a legal invoice through an Application Service Provider (ASP) model. Allegient required the scalability to balance server load and add additional processing power as needed to ensure high performance levels for their rapidly growing client base.

Allegient also required an architecture that is highly available and capable of recovery in disaster situations. Allegient's clients cannot tolerate system downtime. Due to these two conditions, scalability and high availability, Allegient chose Oracle Real Application Clusters (RAC) for the evolution of their Oracle architecture.

The application requires stable production, test, and staging environments, a robust backup strategy, and fail over options in the event of problems with the primary production database. The solution must be integrated with the existing Sun storage solution.

Allegient had it's own professional staff that would support the new RAC architecture once in production and required a collaborative approach at all phases of the project, detailed documentation, and comprehensive knowledge transfer.

#### CINTRA SOLUTION

Allegient pre-selected 9iRAC as the preferred solution for scalability and high availability. Cintra performed a solution analysis comparing other options and confirmed this requirement based on Allegient's internal skillset, budget, and technical requirements.

Cintra then prepared detailed configuration documents for the temporary production environment, RAC production environment, migration and backup procedures. This included complete design and configuration of shared storage for the Oracle databases, strategies for optimizing performance, and all backup and disaster recovery planning. These documents provided a complete, detailed blueprint for the technical personnel to follow in implementing the new architecture.

## RESULTS

Cintra delivered the complete solution for less money than several other vendors previous vendor had quoted for the original scope. During the course of the project, a bug was discovered that applied to 9i RAC on Sun Cluster. Cintra worked with Oracle, Sun and Allegient to resolve this critical issue.

Allegient is now in production with 9i RAC and benefiting from increased scalability and availability along with the data security provided by Oracle DataGuard for disaster recovery and data loss prevention. Oracle RMAN ensures that database backups are performed on a scheduled basis with minimal impact on system performance.

## CUSTOMER CONFIDENCE

Cintra continues its work with Allegient on an "as needed" basis. This enables Allegient to minimize the costs associated with third party consulting services while maintaining the benefits of a team of Senior Technical resources at their fingertips. Allegient trusts Cintra's architectural recommendations and knows they will receive unbiased technical advice.

## TESTIMONIAL

Cintra designed a robust RAC solution that delivered on our scalability and availability requirements enabling Allegient to deliver the maximum availability and performance to our ASP clients. Cintra was sensitive to our budget, timelines, and technical issues as they worked closely with key members of our organization. In addition, their ongoing support for this installation has been first rate. They are a complete solution provider."

--Pat Marafiotte, CTO

*Allegient Systems*

### Solution Snapshot

9iRAC database architecture

#### Hardware:

- Sun e420 Servers
- Sun storage

#### Software:

- Oracle 9iRAC
- Oracle DataGuard for disaster recovery
- Oracle RMAN for backups
- Sun Cluster 3.0

#### Products and Services:

- Complete Oracle architecture design/build
- 9iRAC Implementation
- Implementation of Sun Cluster 3.0
- Integration with Sun storage
- Complete HA & Disaster Recovery solution



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