

# INFORMATION ACCELERATES

## Lowering the Cost of Carrier-Grade Data Management



**ORACLE**  
COMMUNICATIONS

Network IT infrastructure traditionally uses proprietary hardware and software, making it inflexible and expensive to own. Now, that old model is being swept aside—Oracle offers open-standards-based, off-the-shelf software delivering carrier-grade performance at a fraction of the cost.

“The results of pressure/performance tests have proven the performance/price of aTCA [Advanced Telecommunications Computing Architecture] plus Oracle Carrier-Grade Framework. The combination is the best, and so is the scalability.”

**GuoZhang Ye**  
Chief Executive Officer  
Shanghai CINtel  
Intelligent System Company

The need for service agility and lower operating costs is driving a global wave of new investment in efficient, IP-based networks, and a new approach to network IT infrastructure. Traditional hardware-centric, proprietary-network systems are fast being replaced by software-centric, standards-based systems that deliver greater flexibility at a more affordable price.

Oracle is at the forefront of this seismic change, with Oracle Carrier-Grade Framework—an application-ready foundation for building standards-based, modular platforms for next-generation networks and IT infrastructures.

Oracle Carrier-Grade Framework delivers groundbreaking advances in performance-over-cost and provides network equipment providers and network operators with integrated, highly available, high-performance, commercial-off-the-shelf software components in a framework that meets the stringent demands of the communications industry.

Oracle Carrier-Grade Framework helps you

- Slash the capital and operating costs of network IT infrastructure
- Dramatically reduce application development time and costs
- Improve flexibility and service agility
- Build applications on a modular, standards-based framework of services

### **Lower Total Cost of Ownership**

Oracle is supporting the industry's transition to a dramatically more efficient network IT infrastructure that's software-centric and standards-based. By allowing you to capitalize on the performance advances in commodity blade servers and Linux, Oracle Carrier-Grade Framework helps you realize savings on network elements and applications at every stage of the lifecycle. Your initial capital costs are lower, your operating costs are lower, and—with the added flexibility—you can use your resources more efficiently.

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Fact: All 20 of the world's top 20 communications companies rely on Oracle Applications.

### Faster Time To Market

To capitalize on the market for new services and the shift to more-efficient IP-based networks, communications service providers need the ability to develop and deploy new applications quickly and cost-effectively. Oracle Carrier-Grade Framework provides an "application-ready" foundation that combines carrier-grade robustness with the flexibility of open standards and the efficiency of commercial-off-the-shelf software—so you can develop and deploy new applications and services faster.

### Carrier-Grade Speed

Conventional disk-based databases cannot deliver the speeds required for real-time applications on the network. Oracle Carrier-Grade Framework uses the unique caching technology of the Oracle TimesTen In-Memory Database to accelerate database responsiveness and throughput to the levels required for real-time applications. Throughout the industry, Oracle TimesTen In-Memory Database is used for a variety of real-time data management applications, including managing subscriber profiles and preferences, call routing and session information, authentication and management policies, and real-time charging.

### Carrier-Grade Resilience

Losing a mission-critical application—such as a billing system—can cost you tens of thousands of dollars every minute. Oracle Carrier-Grade Framework uses the unique server-clustering technology of Oracle Real

Application Clusters (Oracle RAC) to deliver the high availability and scalability required for carrier-grade applications. Oracle RAC can run a single database on dozens of parallel servers in a grid. With full server redundancy and failover times measured in subseconds, Oracle RAC delivers near 100 percent availability, making your applications unbreakable.

### Scalability, Load-Balancing, and Upgrades

Systems designed to cope with peaks in demand are typically underutilized and inefficient at any other time. Running your applications on a clustered database allows you to scale capacity (up *and* down) by adding or removing servers. You can load-balance for optimum server utilization and, at the same time, reduce your capital and operating costs. This same flexibility also lets you perform rolling software upgrades and migrations with no system downtime, resulting in further cost reductions and improved performance.

### Putting the Service Provider in Control

Oracle is the leading provider of enterprise software solutions to the communications industry. And it's not just the big companies that choose Oracle. We are proud to serve hundreds of communications companies of every size—from the smallest service providers and virtual operators to the largest global carriers—and from every sector, including wireline, wireless, cable, satellite, and network equipment providers. Oracle's



commitment to the communications industry spans 30 years of delivered value and is demonstrated through our extensive software development program, and more recently, our strategic acquisitions—including Siebel, Portal Software, MetaSolv Software, TimesTen, HotSip, and Net4Call.

### Oracle's Solution Portfolio

Oracle's portfolio of solutions includes the widest choice of applications, decision support tools, middleware, and database technology available from a single supplier anywhere in the world. Add the consulting, training, hosting, and product support services available from Oracle and a wide range of partners, and you can be sure you'll get the right advice and the right solution for your communications business.

Oracle Carrier-Grade Framework is built on the following industry-leading technologies:

- Oracle TimesTen In-Memory Database
- Oracle Real Application Clusters
- Oracle Database
- Oracle Data Guard

To learn more about how Oracle can help you cut the cost of data management for carrier-grade applications, contact us today.

### CONTACT US

To learn more, call +1.800.ORACLE1 to speak to an Oracle representative or visit [oracle.com/industries/communications](http://oracle.com/industries/communications)

Outside North America, visit [oracle.com/corporate/contact](http://oracle.com/corporate/contact) to find the phone number for your local Oracle office.