

Information Management software



## IMS and SOA: Transforming the way you do business

*IBM builds on previous IMS foundations with SOA-enabled technology*

## **Continuous availability solutions**

### **Reliable transaction and database management, now enabled for SOA**

Today's on demand business requires reliability, performance and high availability in transaction and database management. For countless organizations across the world, IBM Information Management System (IMS™) technology is a mainstay when it comes to sustaining the integrity of critical applications and data. Virtually unsurpassed in database and transaction processing availability and speed, previous IMS versions have provided firm groundwork for information management for nearly four decades. Now, IBM offers IMS 10, an enhanced system designed to promote increased business flexibility and the intelligent reuse of existing IT assets to generate increasing business operational savings for our customers.

In addition to several high-end features, the latest version facilitates integration with new technology for Service Oriented Architecture (SOA) to help meet the demands of a fast-paced, competitive environment while reducing overall expenditures. Comprising two major components—the IMS Database Manager and the IMS Transaction Manager—IMS 10 can help organizations address on demand business needs through:

- *Integration with other products and platforms across the Internet, supporting open standards and taking advantage of the latest industry tooling for application development and connectivity.*
- *Manageability in staging users to autonomic computing, easing installation and increasing efficiency by reducing outages.*
- *Scalability with virtualization in assuring flexibility for growth and expansion in a heterogeneous environment while taking advantage of the latest hardware and software to optimize performance, capacity, availability and recovery.*

*“The IMS SOAP gateway allows us to expose IMS transactions as web services and provides access from any client capable of submitting SOAP requests, without additional software requirements.”*

—Steven Clanton, Senior Technology Specialist, Caterpillar



## **Continuous availability solutions**

### **IMS provides innovation**

Both IMS Database Manager and IMS Transaction Manager deliver the same high performance and innovation IBM customers have come to expect, and both are fully capable of functioning in a SOA environment.

In a fast-paced, high-pressure, on demand business environment, organizations need the integrity, capability and performance that IMS delivers. IMS Transaction Manager

remains the premier IBM transaction server for organizations that employ relational and hierarchical data stores since they require the highest levels of integrity, capacity, availability and performance for on demand and enterprise computing. Likewise, the premier IBM hierarchical database server, IMS Database Manager, provides and enhances superior performance/capacity, high-end integrity and continuously available database management solutions.

*“Over the years, upgrading to new versions of IMS has gone smoothly and without any application impact. Now, with IMS 10, we expect to further simplify our development environment which will help us reduce time-to-market for new services.”*

—Wang Chen, Manager, Database Technical Services



## **Continuous availability solutions**

### **Open access through application development and connectivity**

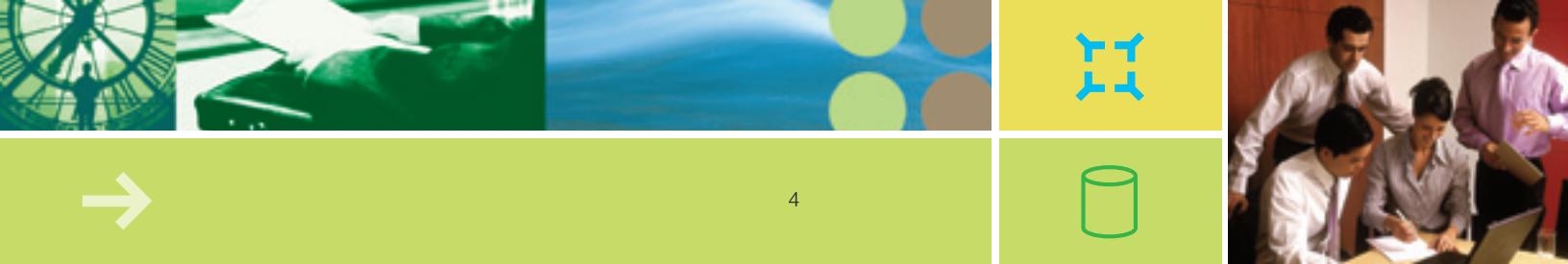
Many organizations are moving beyond traditional models of inflexible business processes and turning to smaller, more accessible and reusable components known as services. This helps manage the challenges of cross-enterprise information exchange. As opposed to a rip-and-replace approach, a SOA maximizes use of new and existing IT assets. The path to SOA is made more accessible since many of the newest enhancements in IMS 10 enable customers to integrate data more easily. Enhancements include:

- *Providing business flexibility and increased management capabilities.*
- *Leveraging application development and connectivity capabilities to integrate across and beyond an enterprise system.*
- *Using XQuery support for easier and more efficient integration of XML and IMS data.*
- *Building robust, on demand business applications with minimal time and effort.*
- *New security capabilities for more control.*

### **Eases manageability through autonomic computing capabilities**

Systems manageability continues to reach new levels of ease-of-use with IMS 10. IMS 10 enables customers to manage operations more effectively through new autonomic computing enhancements, and increases efficiency through reduced system generation time and effort. Installation and administration are now significantly easier with the system's agile installation options and features that help administer, deploy and manage operations from a single point of control to improve visibility and reduce costs. In addition, organizations can now quickly pinpoint and resolve potential problems. These IMS 10 enhancements keep critical applications running smoothly and efficiently with minimal intervention or maintenance. Enhancements include:

- *Manageability through staging users to autonomic computing with simplified operations and systems management as well as improved serviceability.*
- *Easier installation and minimized outages.*
- *IBM z/OS® and zIIP and zAAP engine exploitation for lower operating costs.*



## **Continuous availability solutions**

### **Delivers increased scalability while enhancing performance levels**

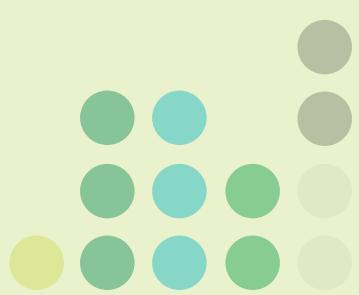
IBM IMS has consistently delivered systems with high levels of dependability. The reliable performance and leading-edge scalability of IMS continues with 10, which can help clients maintain high responsiveness to constantly changing environments. Expanded database support helps ensure continuous options of critical applications, while key enhancements improve response time and transaction throughput. With these features, customers can expect improved architected access to simplify vendor tooling and overall programming efforts, as well as greater ease of use and a smooth migration.

Enhancements include:

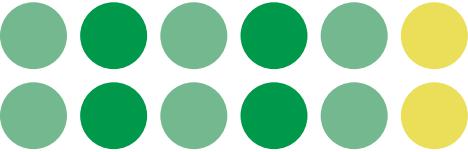
- *Improved Multiple Systems Coupling support for enhanced efficiency, transaction performance, and output message response times.*
- *Reduced recovery control contention and fast replication for enhanced recovery.*
- *Removed buffer limits, sequential dataset size limits and provides storage constraint relief for upgraded system availability, performance, and capacity to improve workload balancing.*
- *Virtualization in assuring flexibility for growth.*

*“Verizon processes in excess of 4 billion IMS transactions each month. IMS continues to provide both the performance benefits and data integrity guarantee that our business customers demand!”*

— George Sharpe, Manager IMS Support Group for Verizon Telecom, Verizon Business and Verizon Wireless Entities



## Continuous availability solutions



### IMS 10: Helping to reduce total cost of ownership

With technology enabling increased data and business transactions, organizations recognize an unprecedented need to increase revenue and reduce operating costs. Expectations for increased returns on existing investments have risen, creating a demand for improved reuse of existing assets as well as simplified access to (and better integration with) other subsystems and environments.

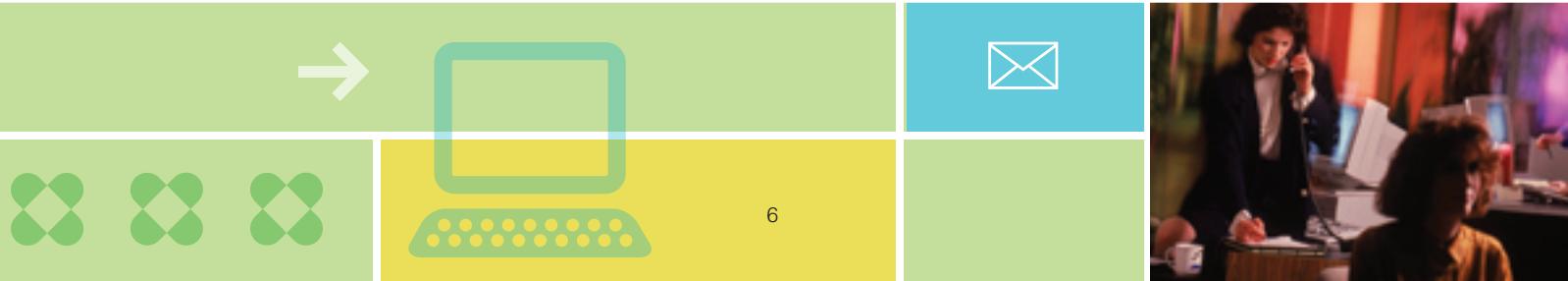
With an efficient, high-powered information management system, organizations can boost profitability through building and maintaining robust business applications with minimal time and effort. Streamlined systems lead to lower operating costs—and service oriented architecture adds yet another layer of cost-effectiveness with its ability to make maximum use of new and existing IT assets. The IBM IMS 10 reduces total cost of ownership by enabling lower operating costs

through z/OS, zIIP and zAAP engine exploitation. It also promotes superior environmental efficiency—customers using the latest IMS technology can reap the financial benefits of reduced power, cooling and space.

### Unparalleled security, scalability and availability

While manageability and cost effectiveness are important aspects of IMS 10, IT managers also need to know they're getting the same high level of security, flexibility and availability they've come to expect from IBM management systems. IMS 10 builds on previous generations, attaining new levels of reliability, security and performance. Key highlights include:

- *Simplified installation and reliable performance to help minimize outages through robust autonomic capabilities.*
- *Virtualization capabilities designed to help increase your flexibility and optimize capacity, availability and recovery.*



## **Continuous availability solutions**

- *Increased scalability combined with enhanced performance levels to minimize downtime.*
- *New security capabilities to facilitate greater control and business flexibility as well as improved auditing and accountability.*

### **Taking IMS to the next level**

Since so much depends on critical applications and data in today's enterprise environment, organizations have high expectations for their management systems; furthermore, customers are challenged with increasing workload. IMS 10, the premier transaction and hierarchical database management system from IBM, offers high availability, performance, capacity, integrity and cost-effectiveness, and is the proven platform to handle huge workloads on a sustained basis with over 50 billion transactions a day run through IMS.

The IMS 10 enhancements to IMS Database Manager and IMS Transaction Manager give organizations more efficiency, adaptability and cost-effectiveness than ever before. Both systems enable users to take advantage of the flexibility and reuse of the service oriented architecture, as well as improve business transactions with integrated information. Additionally, customers can build on demand business applications that are more adaptable to conducting transactions on the Internet. The bottom line: with IMS 10, today's enterprise organizations can run a scalable, available, safe and easily manageable environment, and can make more informed business decisions to meet the challenges of today and tomorrow.

### **For more information**

To learn more about IBM IMS 10, visit:

**ibm.com/ims**

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### **IMS 10 highlights:**

- IMS has a spectacular track record. It's simply the best there is, benchmarking over 22,000 transactions/second (2 billion per day) with database update through a single IMS on a single processor.
- IMS was designed to manage and track parts for the first Apollo moon mission.
- Today, IMS solutions help manage most of the largest corporate information stores worldwide, and several IBM customers are handling more than 100 million IMS transactions per day.
- IMS provides the speed and reliability customers need, with some customers handling over 100 million transactions per day and managing vast volumes of information, with better than 99% availability.
- Over 95% of top Fortune 1000 companies use IMS.





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**TAKE BACK CONTROL WITH** Information Management