

High volume OLTP with increased availability options
and near-zero administration



IBM **Information Management** software

IBM Informix Dynamic Server 11

Highlights

- ***Delivers new enhancements that increase OLTP performance even further***
- ***Provides even more business continuity options for customized high availability***
- ***Reduces deployment and management costs***
- ***Enhances security for compliance with government regulations***
- ***Offers many choices for application development and new extended language support for PHP, Ruby and Microsoft .NET***

Transform data assets into competitive advantage

IBM Informix® Dynamic Server (IDS) 11 is designed to help you better leverage your existing information assets to thrive in today's on demand business environment. IDS 11 extends the reliability and high-speed online transaction processing (OLTP) capabilities IDS customers rely on, and reduces total cost of ownership (TCO). IDS 11 contains many significant enhancements that demonstrate IBM investment and commitment to this data-server technology.

Respond to opportunity in an on demand world

The right IT systems can make the difference in your responsiveness to new marketplace opportunities, even

as external events occur. The reliability, flexibility and ease of maintenance offered by IDS 11 give you the freedom to adapt to changes and customer needs while providing the uninterrupted service that keeps your existing customers loyal.

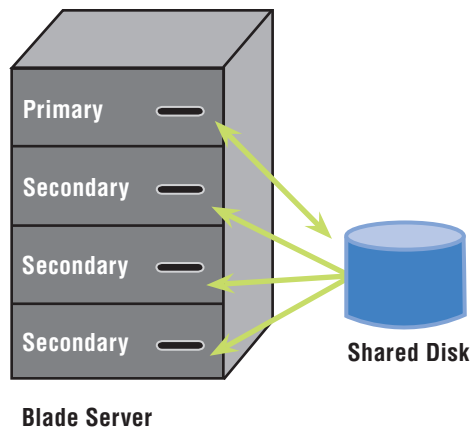
New features address the needs of your mission-critical business operations that require global availability and scalability, delivering continuous business information across your enterprise. At the same time, IDS 11 helps you meet the challenges of optimizing IT investment and lowering the cost of maintaining databases with nearly zero day-to-day administration. IDS provides a secure, resilient and agile information management system for your valuable information assets.

Maintain business continuity with a resilient data server

To deliver information services continually and efficiently, IDS 11 offers a broad spectrum of business continuity options to protect your data server environment. Some business situations require backup servers without duplicating data, while others need full and independent copies of the entire processing environment for failover and workload balancing around the world. IDS 11 offers flexible choices that work seamlessly together for an availability solution to fit nearly any situation.

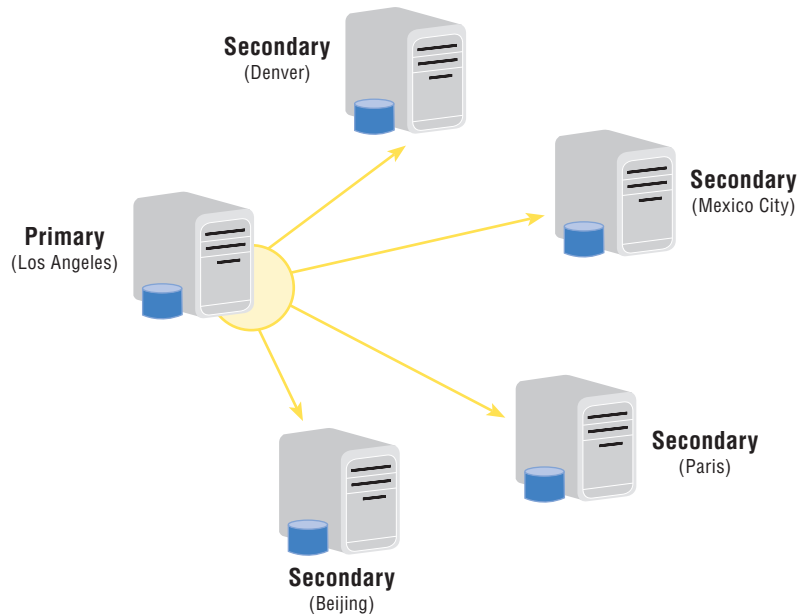
New: Continuous Availability Feature

The IDS Continuous Availability Feature enables you to build a cluster of IDS instances around a single set of shared storage devices. The cluster shares more than disks — all instances also synchronize memory structures, providing nearly seamless fail-over options at a fraction of the cost of having full replicas of the primary data server environment. Properly written applications can easily leverage this architecture for load-balancing or practically uninterrupted data services, even in the event that one or more servers fail.



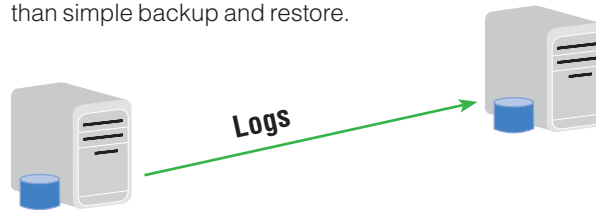
Now improved: High-availability data replication

IDS extends the current high-availability data replication feature by supporting multiple secondary sites, enabling you to create a failsafe, multi-site global availability plan while maximizing IT investment. Each remote replica can also be used for read access, providing more options for load balancing and improved performance.



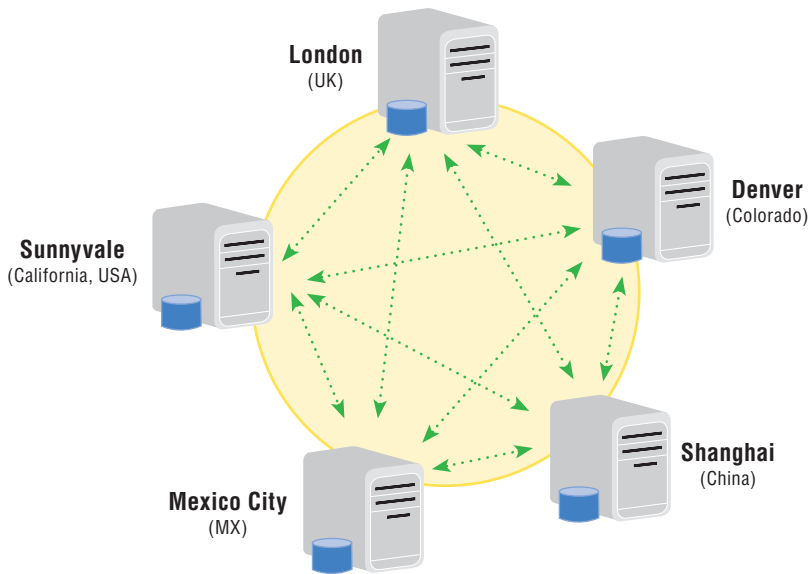
New: Continuous log restore capability

The new IDS continuous log restore capability extends backup and restore tactics, offering log recovery to a backup server. This is often an ideal availability solution for businesses using IDS Express, offering a more automated and highly available option than simple backup and restore.



“Because reliability is our top priority, any outage to our network applications can hinder our ability to respond to our customers. The innovations of the new continuous availability feature of IDS 11 will assure Verizon’s ability to provide uninterrupted service to our customers, day and night.”

—Geoff Poole, Lead Informix Database Administrator, Verizon



Now improved: Enterprise replication

Enterprise Replication (ER) offers a full range of read and write capabilities for replicated data across all servers participating in an ER cluster. IDS 11 enhances the performance capabilities and dynamic administration of this technology, enabling you to build a data sharing system across your enterprise without any additional application development.

With IDS, all of these availability features work together, enabling you to create the availability solution that best meets your business needs.

Experience high performance with an agile data server

IDS 11 offers significant performance gains and reduces infrastructure costs with robust features such as:

- *Last committed isolation level in transactions and non-blocking checkpoint maximizes concurrency for application performance.*
- *File system direct I/O approximates I/O performance on raw devices.*
- *New ANSI SQL extensions for derived tables and optimizer directives improve SQL operation performance.*
- *Automatic statistics collection occurs during index build, also helping to optimize data queries.*
- *Improved query performance for index scans with highly duplicate leading keys.*

“We are impressed with the new capabilities that IDS 11 will offer. Specifically, the high reliability and superb transaction throughput really appealed to us and our higher-education customers. With the development of IDS 11, IBM makes it clear that IDS continues to be a key strategic product in its portfolio.”

– James Chen, CTO, Jenzabar, Inc.

Customer improvement

Beta tester: Gillani, a Richardson, Texas-based maker of ERP and supply chain management applications.

Tested: Creation of a complex report involving multiple table joins accessing more than 100 tables in a series of complicated SQL statements.

Result: IDS 10 executed the task in 415 seconds. IDS 11 lowers execution time to 75 seconds.

Shorten time to value with advanced application development

See more value from your investment sooner with IDS 11 features that help speed, streamline and enhance application development.

New: Web Feature service

The new Web Feature Service API in IDS 11 makes it even easier to use location-based services or location-enabled IT services. This feature implements an Open GeoSpatial Consortium Web Feature Service (OGC WFS) API in IDS to enable web-driven applications to interact with

location-based data provided by the IBM Informix Spatial and Geodetic DataBlade modules. Applications that need to exchange location information or track assets can easily exchange this information via a Web service. New releases of the Spatial and Geodetic DataBlades also support the Web Feature Service API.

New: Built-in XML features

New features for XML data are also available in IDS 11. Built-in functions plus XPATH expressions facilitate the publishing of the results of SQL operations as properly formed XML documents. Additional functions enable you to validate the structure and contents of XML documents as well as to extract and manipulate field contents.

New: Basic Text Search functionality

The newly bundled IBM Basic Text Search DataBlade module supports far more text parsing than is available with standard SQL operators. Proximity and fuzzy searches can be executed on standard ASCII-based attributes such as CHAR, VARCHAR, LVARCHAR, TEXT or CLOB datatypes.

New: Customized deployment

IDS 11 provides support for multiple triggers on tables and views for application flexibility and compatibility. A customizable installation footprint can be created via the Deployment Wizard, enabling you to install just the data server functionality you need, reducing the cost and size of your solution and distribution.

Save time and costs with automation for hands-free administration

The race for database software vendors to continually add features and functionality to database management servers often results in complexity that increases the burden placed on database administrators—not to mention the number of administrators required to run the environment. IDS has always been well-known for its low cost of administration, and now IDS 11 helps further reduce the time required to maintain and upgrade existing databases, freeing up your staff's time to design and implement next-generation business solutions.

- *Administrative tasks, such as space management, monitoring and manipulating memory, session management and nearly 100 other activities can be executed using SQL statements within your application with the new SQL Administration API.*
- *Controlling database administrative tasks from the application permits seamless integration for solutions requiring a “nearly invisible” database.*
- *The Database Scheduler allows you to manage and run scheduled maintenance, monitoring and administration tasks at predetermined times or situations without having to use O/S scheduling features. For example, you can monitor storage space usage and execute corrective actions automatically based on the results.*
- *A GUI-based OpenAdmin Tool for IDS management console is now available that can manage all instances in the enterprise, providing detailed drilldowns of resource usage and session activity down to the iterator level if necessary.*

Protect your critical data for compliance, security and customer trust

IDS has always supported a set of open, industry-standard security mechanisms such as roles, UNIX® password-based authentication and relational database management system (RDBMS) schema authorizations. These open standards ensure flexibility and maximum security with easier validation and verification. Column-level encryption and Pluggable Authentication Modules (PAM) are already available in IDS. The new Advanced Access Control Feature in IDS 11 offers cell-, column- and row-level label-based access control (LBAC). This means that access to data can now be controlled down to an individual cell of information, providing greater security for your critical data and sensitive customer information.

Leveraging your existing IBM investment

IBM offers complementary data management and software products that integrate with and support IDS, including IBM Tivoli® Storage Manager, IBM WebSphere® Application Server and MQ offerings and a variety of other

IBM tools. In fact, 39 IBM software offerings are complementary to IDS. IBM IDS 11 reflects the ongoing IBM commitment to open standards and leading-edge technology support.

- *Customers with IDS 9 or IDS 10 maintenance contracts can upgrade to IDS 11 at no charge. IBM offers special trade-up pricing to encourage upgrading for IDS 7.x, SE and Online customers.*

“With IDS 11, it’s almost as if IBM Informix built a new release just for me. Informix has given us a path toward better response time, and a low-cost means of growth.”

– Joe Bai, CIO, WorldWinner

For more information

To learn more about IDS 11 and the full spectrum of innovative IBM Information Management products and services, contact your local IBM representative or visit: ibm.com/informix/ids.

Available on:

Platform	IDS 11 platforms
IBM System p™, IBM System i™	IBM AIX® 5L 5.3 (32-bit and 64-bit)
IBM POWER™ (System p, System i, OpenPower™, JS20 Blades):	Linux® RHEL 4, RHEL 5, SuSE SLES 10, Asianux 2.0 (64-bit)
IBM System z™	Linux RHEL 4, RHEL 5, SuSE SLES 10 (64-bit)
Sun Sparc:	Sun Solaris 9, 10 (32-bit and 64-bit)
Intel®/AMD x64	Intel EM64T/AMD AMD64 Sun Solaris 10 (64-bit)
HP PA-RISC	HP-UX 11i, 11.23, 11.31 (32-bit and 64-bit)
HP Itanium®	HP-UX 11.23, 11.31 (64-bit)
Intel x86	Microsoft Windows® 2003, Windows XP, Windows Vista™ (32-bit) Linux RHEL 4, RHEL 5, SuSE SLES 10, Asianux 2.0 (32-bit)
Intel/AMD x86-64 (Intel EM64T/AMD AMD64):	Windows 2003, Windows XP, Windows Vista (64-bit) Linux RHEL 4, RHEL 5, SuSE SLES 10, Asianux 2.0 (32-bit and 64-bit)



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