BROADCOM ®
MAINFRAME SOFTWARE

Product Brief

Datacom™

Key Benefits

- Rapid response time and 24×7 availability for critical applications and business services
- Modernization capabilities to participate in mobile, cloud, web, and analytics
- High-volume workload scalability designed for efficiency and to help reduce costs
- Performance improvements through automated data collection and reporting

Key Features

- **Database API generator:** Auto generation of REST APIs realizing faster time-to-market delivery of modern applications to support critical business needs.
- **Zowe conformant systems REST API and health check analyzer:** Flexibility to leverage modern tooling to address the skills challenge and automate systems management.
- **SQL performance analyzer:** Analyze the performance of cached and actively running SQL queries, cancel a problem query manually or automatically, and get diagnostic information through a browser-based user interface.
- **Standard SQL:** Query all Datacom databases without migration or conversion while preserving existing applications.
- **ODBC and JDBC drivers:** Access data via modern APIs with Datacom Server.
- **zIIP specialty processor exploitation:** Make all Datacom workloads eligible for execution on a zIIP processor.
- **Data encryption capabilities:** IBM Pervasive Encryption support is available with VSAM linear datasets.

Overview

Datacom™ is a high-performance, web-enabled relational database management system for IBM z Systems. The solution enables organizations to provide continuous, 24×7 availability to critical data. Datacom exploits the latest in hardware and software technologies, including cost-effective support for IBM z Systems Integrated Information Processor (zIIP) specialty processors. Datacom scales to manage extremely high-volume workloads and takes advantage of new hardware technologies with improved memory optimization.

Business Challenges

Data is the most valuable asset for a business. Data fuels the new apps and services that differentiate a business in the market. Because the most important data lives on the mainframe, corporate database systems must be highly scalable to handle ever-increasing business demands and be flexible enough to support existing applications—all while deploying new web-enabled technologies without requiring costly rewrites and conversions.

Companies need a reliable database repository with enterprise-wide, high-volume workload and fault-tolerant capabilities. Also desirable are modernization techniques designed to improve performance, scalability, platform support, standards compliance, and usability while simultaneously reducing costs.

Without a unified way to get ahead of nonstop demands for data, your organization could continue to experience the following challenges:

- Struggling to provide 24×7×365 availability for increasing numbers of apps and services
- Applying more resources to manage, administer, and optimize databases
- Relying on manual processes and having difficulty identifying performance bottlenecks
- Facing a growing talent shortage as retirement reduces the pool of technically skilled workers

Solution Overview

Datacom provides transaction processing performance for existing and new workloads, helping you consolidate business functions on a central data repository, as needed.
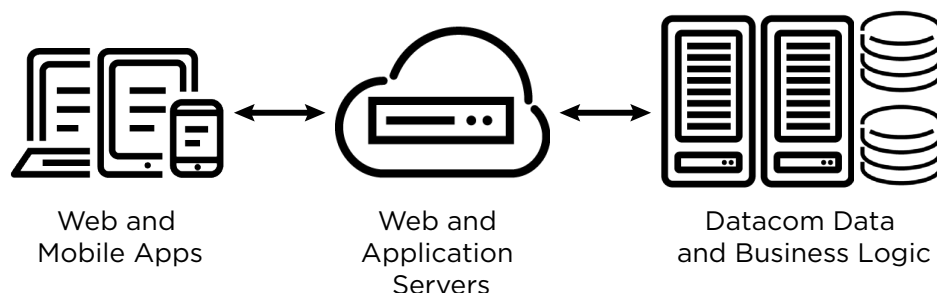
Key Features (cont.)

- **High-availability capabilities:** Utilize system capabilities to provide continuous access to user data during system failures, database region recycles, or system recycles.

- **24×7 data access:** Allow key database functions such as reorgs, dataset moves, and compression changes to complete while the data is online and available to users.

Differentiators

- **Exploit mainframe memory capacities and processor speeds:** Datacom scales to manage high-volume workloads and utilizes new hardware technologies with improved memory optimization techniques.

- **Scales to handle additional workloads:** The system's highly efficient resource utilization techniques have allowed some customers to delay or cancel plans for hardware upgrades.

- **Proven performance and reliability:** Organizations need a solid database foundation with reliable, scalable, secure, high-performance, and cost-effective database management.

- **Modernization without disruption:** Integrate with business-critical applications by embracing the concept of open.

- **Embrace open:** Leverage the power of APIs opening up and making Datacom more extensible, simplifying and automating everyday user experiences.

- **Distributed and web access to Datacom data:** With full upward compatibility, and no changes to existing databases and applications, the system offers the ultimate flexibility for more-effective business services.

Datacom REST APIs, SQL, and Server opens up Datacom data to the digital world of web, mobile, cloud, analytics, and distributed business applications using JDBC and ODBC.

Web and Mobile Apps   Web and Application Servers   Datacom Data and Business Logic

Solution Overview (cont.)

Datacom delivers cost-effective and reliable database processing. The system helps you unlock the value of your core business data by making it extensible to mobile apps, perform faster for less cost, accessible to big data projects, and sustainable. Datacom meets the following needs:

- **Modernization:** Datacom SQL and Server opens up Datacom data, enabling integration into modern applications, business intelligence, analytics, and web services.

- **Exploding storage requirements:** Shrink database storage (DASD) requirements and improve ROI without impacting CPU cycles.

- **Performance optimization:** Quickly measure COBOL and Datacom IDEAL™ applications running in Datacom environments and pinpoint problems before they arise when combined with related solutions.

- **Professional services:** Help maintain well-running, critical business systems.

- **Datacom VSAM transparency:** A conversion utility that automatically defines VSAM files to the Datacom database.

Supported Environments

Datacom runs on any IBM mainframe that runs on a release of z/OS currently supported by IBM.

Related Products and Solutions

- Mainframe Vitality Program: Attract, grow, and retain mainframe resources and skill sets to create a sustainable mainframe workforce.

- Datacom Presspack: Performs compression on Datacom tables to reduce the amount of DASD required to store data.

For more information, please visit: www.broadcom.com/datacom

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