

CA Datacom® is a high-performance, web-enabled relational database management system for IBM® z Systems™. The solution enables organizations to provide continuous, 24x7 availability to critical data and exploits the latest in hardware and software technologies, including cost-effective support for IBM z Systems Integrated Information Processor (zIIP) specialty processors. CA Datacom scales to manage extremely high-volume workloads and takes advantage of new hardware technologies with improved memory optimization.

Key Benefits/Results

- **Rapid response time and 24x7** availability for critical applications and business services
- **Flexible modernization capabilities** help you leverage critical data from traditional, web and distributed applications
- **Highly scalable** to manage extremely high-volume workloads with efficient processing designed to help reduce costs
- **Performance improvements** that use automated data collection and reporting to help provide the foundation for more self-automated tuning in future releases

Key Features

- **zIIP specialty processor exploitation** makes all CA Datacom workload eligible for execution on a zIIP processor.
- **Data encryption capabilities** that exploit the Crypto Coprocessor for data at rest are implemented at the table level.
- **Expanded buffer support** enables the majority of buffer pools in the database region (MUF) to be optionally moved from 31-bit storage into 64-bit storage. This compliments the ability to support up to 99 additional buffer pools of each type: IXX, DXX, and DATA.
- **High-availability capabilities** utilize existing SYSPLEX capabilities to provide continued data access across system failures during maintenance applications and LPAR recycles.
- **24x7 data access** allows key database functions (reorgs, dataset moves and compression changes) to be completed while the data is online and available to users.

Business Challenges

Data is a business' most valuable asset and fuels the new apps and services that differentiate it 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 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 challenges, such as:

- Struggling to provide 24x7x365 availability of 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

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

When combined with related solutions, CA 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 with regard to:

- **Modernization:** Integration into modern applications, business intelligence, analytics and web services
- **Big data integration:** Extend access of CA Datacom data into big data projects
- **Exploding storage requirements:** Shrink database storage (DASD) requirements and improve ROI without impacting CPU cycles
- **Performance optimization:** Quickly measure COBOL and CA Datacom IDEAL applications running in CA Datacom environments and pinpoint problems before they arise
- **Professional services:** Help maintain well-running, critical business systems

Critical Differentiators

Exploit mainframe memory capacities and processor speeds. CA Datacom scales to manage extremely high-volume workloads, and in each new release, 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.

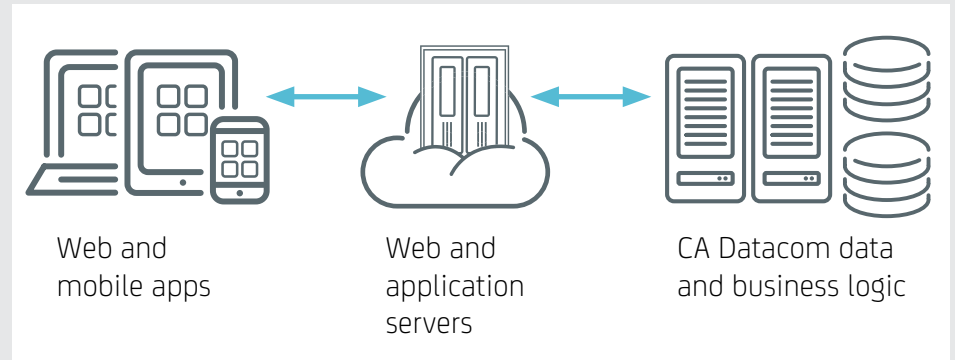
Proven performance and reliability.

Organizations need a rock-solid database foundation with reliable, scalable, secure, high-performance and cost-effective database management.

Modernization without disrupting business-critical applications.

CA Datacom has been aggressively enhanced to incorporate the latest technologies and industry standards with upward-compatible support for current data and applications. When SQL, ODBC, and JDBC emerged as industry standards for database access, CA Datacom delivered these capabilities.

CA Datacom SQL and Server opens up CA Datacom data to the modern application economy of web, mobile, cloud, big data and distributed business applications using JDBC and ODBC.



Distributed and web access to CA 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.

Related Products/Solutions

- **CA Datacom SQL and Server** opens up CA Datacom data to Web and distributed access using JDBC and ODBC
- **CA Datacom M3A Service** provides integrated service and support to support CA Datacom environments

- **CA Datacom Presspack** performs compression on CA Datacom tables, reducing the amount of DASD required to store data
- **CA Datacom VSAM Transparency** is a conversion utility that automatically defines VSAM files to the CA Datacom database.

Supported Environments

- CA Datacom runs on any IBM supported release of z/OS®.

For more information, please visit ca.com/datacom

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