

Product Brief

IDMS[™]

Key Benefits

- Rapid response time and 24x7 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

- **Single, integrated database architecture:** Supports relational and navigational, record-at-a-time processing.
- **Transaction server:** Run online applications written in COBOL, PL/1, and ADS[™] in a high-performance environment.
- **Standard SQL:** Query and update all IDMS databases without migration or conversion while preserving existing applications.
- **ODBC and JDBC drivers:** Access data via APIs with IDMS Server.
- **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:** Flexibility to leverage modern tooling to address the skills challenge and automate systems management.

Overview

IDMS[™] is a cost-effective, highly-reliable, proven, and secure database management system for IBM z Systems that delivers outstanding business value for hundreds of enterprises and government organizations around the world. A powerful database engine providing network and relational access, exploiting the latest hardware and software technologies including the IBM z Systems Integrated Information Processor (zIIP). IDMS scales to manage extremely high-volume workloads and takes advantage of new hardware technologies with improved memory optimization.

Business Challenges

Data is a business' most valuable asset, fueling new apps and services that differentiate it in the market. Because mission-critical data is stored on the mainframe, corporate database systems must be highly scalable to handle ever-increasing business demands. These systems must be open and extensible to support existing applications, and enable modern digital transformations without requiring costly rewrites and conversions.

Companies need a reliable database repository with an enterprise-wide, high-volume workload and fault-tolerant capabilities. They also need transformation 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 24x7x365 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

IDMS is a high-performance database management and transaction processing system supporting existing and new workloads, and helping organizations to consolidate business functions on a central data repository.

IDMS delivers cost-effective and reliable database processing. The system helps to unlock the value of your core business data by making the data open and extensible.

Key Features (cont.)

- **Zowe command line interface and plug-in:** Enable users to interact with the mainframe through modern scripting languages.
- **MQ adapter:** Send and receive messages that can be zIIP enabled.
- **ADS zIIP eligibility:** Allows IDMS ADS dialogs to execute in SRB mode making them eligible to run on zIIP specialty engines.
- **SYSPLX enabled:** Helps provide scalability and high availability for online applications.

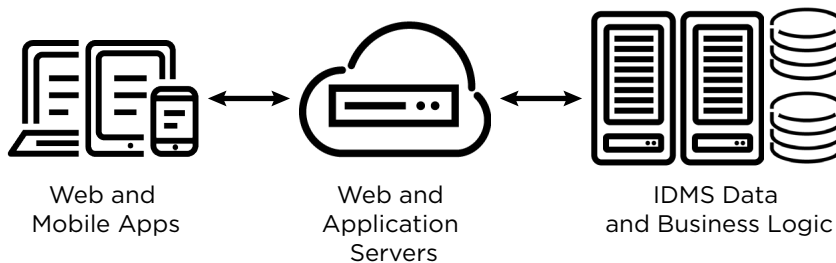
Supported Environments

IDMS runs on any IBM supported release of z/OS.

Related Products and Solutions

- **Mainframe Vitality Program:** Attract, grow, and retain mainframe resources and skill sets to create a sustainable mainframe workforce.
- **IDMS Presspack:** Performs compression on IDMS tables to reduce the amount of DASD required to store data.
- **IDMS Performance Monitor:** Provides system and application statistics for multiple systems to enable system tuning and problem diagnosis, and support integration with SYSVIEW®.
- **Endevor®/DB:** Provides software change management for IDMS Integrated Data Dictionary objects.

IDMS REST APIs, Zowe CLI, SQL, and Server (JDBC and ODBC) opens up IDMS data to the digital world of web, mobile, cloud, analytics, and distributed business applications.



Solution Overview (cont.)

IDMS enables you to achieve the following objectives:

- **Cut storage requirements:** Shrink database storage (DASD) requirements and improve ROI without impacting CPU cycles.
- **Optimize performance:** Quickly measure COBOL and IDMS ADS applications running in the IDMS environments. Pinpoint problems before they arise when you combine IDMS with related solutions.

Differentiators

Exploit mainframe memory capacities and processor speeds. IDMS scales to manage extremely 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.
- **Embrace open:** Modernization without disrupting business-critical applications by *embracing* the concept of *open* data access.
- **Leveraging the power of APIs:** Opening up and making IDMS more extensible, simplifying and automating everyday user experiences.
- **Full-relational database support:** IDMS supports full-relational capabilities, including relational access to existing IDMS network data.
- **IDMS SQL virtual foreign keys:** Expose network sets as referential constraints, enabling the use of standard SQL to query, insert, update, and delete network records with capabilities similar to native DML.
- **Distributed and web access to IDMS:** Flexibility for effective business services. Enabling full-upward compatibility without requiring changes to the existing network databases and applications.

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