

# Actian Zen Database

Zero DBA, embeddable database for data-driven Edge intelligence applications

## Key Benefits

Zero DBA, developer-configurable

NoSQL and SQL

Embed or bundle with your business-critical intelligent applications

Data portability follows your application across platforms and versions

Simple upgrades

Backward compatibility

## Supported Platforms

Windows 10, Windows 2016 Servers

Linux, OS X

Android/Android Things, Windows IoT & Nano Server, Raspbian

Intel and ARM 64-bit support

2MB minimum installed footprint

## License Options

1, 5, 100, 250, 500-user developer kit

1-user free community edition

Multuser trial evaluation versions

1-10, 100, 250, and 1000-client packs for commercial deployment on-premise and cloud-based

Actian Zen database product family is a single, secure, scalable Edge data management portfolio that meets the needs of on-premise, cloud, mobile and IoT application developers. Actian Zen provides persistent local and distributed data across intelligent applications deployed in enterprise, branch, and remote field environments, including mobile devices and IoT. Develop and deploy on Intel or ARM running Windows 10, Windows 2016 Server, Linux, OS X, Android, Raspbian, Windows IoT Core and Windows Nano Server, supporting the latest application requirements for local data and embedded analytics.

ISVs, OEMs, SIs, and Enterprises building in-house applications increasingly need to embed a data management platform in their applications to support value-added features and functionality, including end-user personalization and multichannel context, decision support, hybrid cloud support, provisioning, management, and security and governance. With both relational and direct data access, self-tuning, reporting, data portability, exceptional reliability, easy upgrades, and backward compatibility, developers of intelligent software can deliver applications at scale across on-premise data centers, hybrid cloud, and branch and field environments.

Zen offers NoSQL access for data-intensive application performance and local analytics support that leverages all popular programming APIs, providing the perfect combination of speed and flexibility. Developers can choose among several methods of direct access to data without going through a relational layer. Zen databases (except Zen Core) also offer SQL access for reporting, query, local transactions. This enables fast read and quick insert, update, and delete performance alongside full ACID response on writes and ANSI SQL queries. Zen supports SQL access via JDBC/ODBC and NoSQL access via the Btrieve and Btrieve 2 APIs.

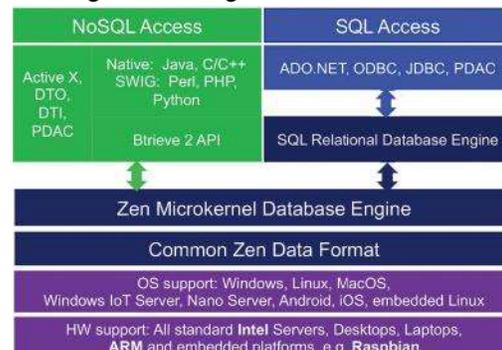
## Single-scalable architecture with purpose-built family members

Branch/Remote Apps	Complex Equipment & Gateway Apps	Smart Apps/IoT Devices
<p><b>Actian Zen Enterprise database</b></p> <p><b>Actian Zen Workgroup database for Windows (1 – 5 user)</b></p> <p><b>Actian Zen Workstation database for Windows (single user)</b></p> <ul style="list-style-type: none"> <li>Windows 10, Mac X, Linux</li> <li>Embed in/bundle with On-Premise App Deployments</li> <li>No ETL between Cloud, Gate, Edge</li> <li>Full compatibility with Cloud, Edge &amp; Core versions</li> <li>1 – 5 User Workgroups for branch offices and small enterprises</li> <li>Scale to 1000s of concurrent users</li> </ul>	<p><b>Actian Zen Edge database</b></p> <ul style="list-style-type: none"> <li>Windows IoT Core, Raspbian, Windows Nano Server</li> <li>Embed in/bundle with Gateways and other remotely fielded devices</li> <li>No ETL up to Cloud or On-Premise IT or downstream to Core Clients</li> <li>Embed in Client App or Bundle to support multiple apps on Gateways and Complex Equipment</li> <li>Minimum footprint of 30MB</li> <li>ARM and Intel support</li> </ul>	<p><b>Actian Zen Core database for iOS</b></p> <p><b>Actian Zen Core database for Android</b></p> <ul style="list-style-type: none"> <li>Embed in apps on smart devices</li> <li>Minimum footprint of 2MB</li> <li>No ETL up to Cloud, On-Premise IT, or Edge or in Peer-to-peer clients</li> <li>ARM and Intel support</li> </ul>

Community Editions and Trial Evaluation licenses for all family members and deployment environments

The Actian Zen database family is built with a single, modular architecture that scales from a core set of libraries capable of single-user client data management to a direct key-value store engine up to a full-fledged, enterprise-grade server, capable of supporting thousands of users on a multicore, VM cloud environment. Add-on packages for auditing, replication, and multi-instance synchronization further support networks of branch offices and remote workers or mobile and IoT devices connected to gateways.

## NoSQL and SQL



## New Btrieve 2 API

Java and C/C++ app developers can take advantage of the new version of the Btrieve 2 API, with the same access calls as the original but in a simplified, more intuitive client library. The Btrieve 2 API SDK also includes Simplified Wrapper and Interface Generator (SWIG) files for Perl, PHP, and Python, giving developers in those languages Btrieve data access with a quicker ramp to productivity.

## Zero Database Administration

Set it and forget it. OEMs and ISVs cannot always count on customers purchasing support and maintenance for their products and therefore need to avoid integrating components that create undue burdens and unforeseen support costs. All Zen products are built for non-IT environments, removing need for consultants or DBAs.

## Data Portability

Zen databases all support the same data types and file formats and prior PSQL versions, so none of the typical ETL overhead is required for accessing and moving data between any operating environment or versions of Actian Zen or PSQL database products. Seamless portability simplifies development, deployment, and maintenance. No ETL work - just copy data and go.

## Backward Compatibility

Backward compatibility has long been a top priority for Actian Zen and earlier PSQL versions. Upgrading to the latest release is designed to be easy, with no need to migrate data, rewrite or recompile code, or even reinstall existing applications. Just keep moving smoothly from release to release with the same low-stress maintenance and possibilities for innovation.

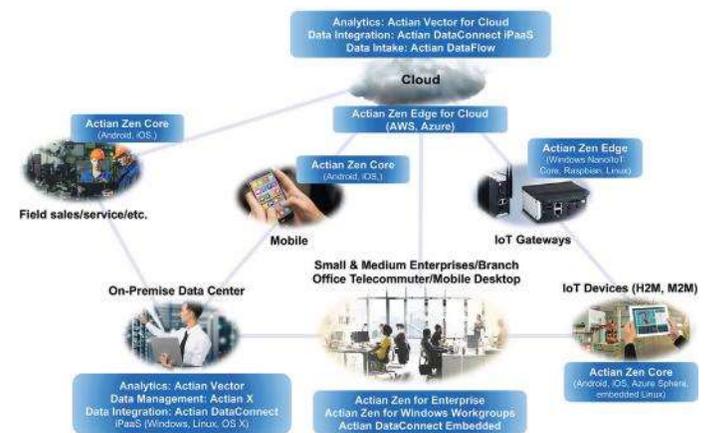
## Making Intelligent Applications Data-Driven



Actian Zen Enterprise database is ready to handle your application architecture as it evolves. It enables you to incorporate intelligence, multiplatform support, stateful

distributed processes, and other features that drive value for your end users and revenue for your products and services. With Zen you can ensure your app has the data it needs to personalize and improve your application's relationship with its end users through decision support and situational awareness capabilities. Furthermore, localized data management can improve satisfaction rates, secure it, monitor and manage upgrades and determine which features and functions have bugs, what the upgrade path should be, and so on. In all these cases, your app data should be encrypted and stored in your own embedded database.

## On-premise, SaaS, Mobile and IoT device intelligent applications with a single, secure and scalable data management platform



File systems or simple local SQL databases (for example, SQLite) are not powerful enough to support the range of devices or data sizes or to handle both transactional data and local analytical processing in client-server or peer-to-peer settings. Alternatively, the traditional databases or NoSQL platforms are incapable of limited configuration for a full range of embedded systems, do not embed into apps, require on-site support, and do not support OEM models. Most developers and designers create products across platforms and data management and file systems, which can slow design and coding through multiple APIs, adding ETL overhead for data conversion, maintenance, and support. As described above, the Actian Zen database family runs on across virtually all platforms.



[www.actian.com](http://www.actian.com) | Toll Free +1 888 446 4737 | Tel +1 650 587 5500  
2300 Geng Rd., Suite 150, Palo Alto, CA 94303

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