

# HIGH AVAILABILITY OPTION



Uninterrupted Excellence, Anytime, Anywhere

**Framesoft High Availability (FHA) ensures operational and accessible Framesoft solutions with minimal downtime, critical for preventing operational disruptions, financial losses, or safety risks. FHA employs redundancy to eliminate single points of failure, utilizing redundant components that seamlessly take over during failures. This strategy includes spreading service components across various locations to reduce the risk of localized failures affecting the entire system.**

Redundancy is a key component of Framesoft High Availability (FHA), ensuring that there are no single points of failure. This is achieved through redundant components which can take over operations in the event of a failure. Failover mechanisms automatically switch to a redundant or standby component upon the failure of a primary component, ensuring continuity of service.

Framesoft High Availability (FHA) spread out the components of a service across multiple physical and / or logical locations to mitigate the risk of a localized event causing total system failure.

## Framesoft High Availability (FHA) Architecture

### A. Application Server High Availability

#### 1. Redundancy

Multiple application server instances across diverse physical or virtual environments ensure service continuity, even with server failures. This setup supports geographic redundancy by distributing instances across multiple data centers.

#### 2. Shared Redo-Log

The shared Redo-Log is a fundamental component of the Framesoft High Availability (FHA). The application server continuously generates Redo log entries for any transaction committed. Once a transaction is saved and committed to the database (asynchronously) it is marked accordingly in the Redo-Log.

The Redo-Log is stored in a shared storage system that is accessible by both the primary and secondary application server. This shared storage can be a network-attached storage (NAS), a storage area network (SAN), or cloud-based storage, depending on the architecture's requirements and design.

In the event of a primary application server failure, the secondary application server quickly takes over as the new primary application server, using the shared redo log to ensure it is fully synchronized up to the last successful transaction recorded before the failure. This minimizes downtime and data loss.

#### 3. Failover Mechanism

Framesoft High Availability (FHA) incorporates automated failover to reroute traffic to operational servers, maintaining service without manual intervention.

#### 4. Performance

The centralized Shared Redo-Log optimizes synchronization, preventing network overload and enhancing system efficiency.

### B. Database High Availability

Database high availability is achieved through clustering or replication, FHA ensures database services remain uninterrupted. Clustering allows multiple servers to act as a single service, while replication ensures real-time data availability across servers. Oracle

Exadata, including Oracle RAC and Oracle Active Data Guard, supports these high availability strategies.

#### Integration

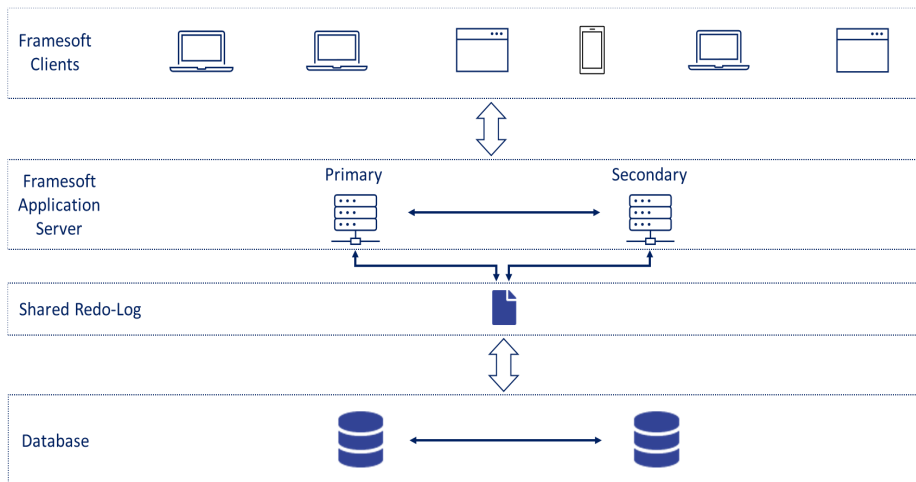
Framesoft High Availability (FHA) extends to Framesoft products such as:

- Framesoft Structured Products (FSP)
- Framesoft Fee Management (FFM)
- Framesoft PRIIPs KID Generator (FPG)
- Framesoft OTC Platform (FOP)
- Framesoft Contract Repository (FCR)
- Framesoft Confirmation Generator (FCG)
- Framesoft Matter Management (FLM)

enhancing their reliability and uptime.

This streamlined overview emphasizes the essential components and benefits of FHA, ensuring clarity and focus on high availability's critical aspects for Framesoft solutions.

For more information or to engage with Framesoft High Availability solutions, contact us at [contact@framesoft.com](mailto:contact@framesoft.com) or visit [www.framesoft.com](http://www.framesoft.com).



# COMPANY PROFILE

Framesoft AG Software Applications



Framesoft offers the following fully integrated solution portfolio:

- **Framesoft Contract Management (FCM)**
- **Framesoft Contract Repository (FCR)**
- **Framesoft Online Negotiation (FON)**
- **Framesoft Data Insight (FDI)**
- **Framesoft Artificial Intelligence (FAI)**
- **Framesoft Structured Products (FSP)**
- **Framesoft Fee Management (FFM)**
- **Framesoft Document Management (FDM)**
- **Framesoft Secure Online Data Room (FDM Platform)**
- **Framesoft PRIIPS KID Generator (FPG)**
- **Framesoft OTC Platform (FOP)**
- **Framesoft Confirmation Generator (FCG)**
- **Framesoft Matter Management (FLM)**
- **Framesoft Repo & Securities Lending (FRS)**
- **Framesoft Document Generator (FDG)**

## About Framesoft

Founded in 1996, Framesoft specializes in providing leading-edge technology solutions tailored for the financial services industry. Our comprehensive portfolio covers the entire software solution lifecycle, from application design to delivery, integration, and provision as Software as a Service (SaaS).

## Our Mission

Maximize the benefits of technology for our clients by leveraging our unique Framesoft Framework strategy. This approach enables rapid application development through configurable core modules, ensuring we meet the evolving needs of the financial services market.

## Our Offer

Framesoft's solutions range from

- **Contract Management** incl. Document Assembly & Generation, Negotiation, Document Analysis (AI), Netting and Lifecycle Management.
- **Structured Product Engineering & Issuance Management** incl. Document Generation & Distribution (e.g., OC, PRIIPs KID, Fact Sheets, e-Mails).
- **Fee Management** – managing distribution agreements & fee payments
- **Global Content and Collaboration Management**
- **Data Mining & Business Intelligence**
- Managing the **OTC derivatives sales & trading** process
- **Legal & Compliance Matter Management**

supporting the complete value chains, replacing unstructured tools such as paper, e-Mail, and telephone with structured & efficient processes.

Our offering portfolio includes Production, Business and User Support.

## Key Benefits

Clients using Framesoft solutions experience:

- High degrees of Straight Through Processing (STP)
- Reduced operational risks by minimizing manual interventions
- Enhanced control over complex business processes
- Increased business process efficiency and transparency
- Accelerated time-to-market
- Lowered legal and credit risks

## Global Presence

Framesoft is headquartered in Zug, Switzerland, with subsidiaries in:

- Europe (Switzerland, Germany, United Kingdom)
- North America
- Asia Pacific

## Contact Us

For more information, e-Mail us at [contact@framesoft.com](mailto:contact@framesoft.com) or visit our website at [www.framesoft.com](http://www.framesoft.com).