

HIGH AVAILABILITY OPTION

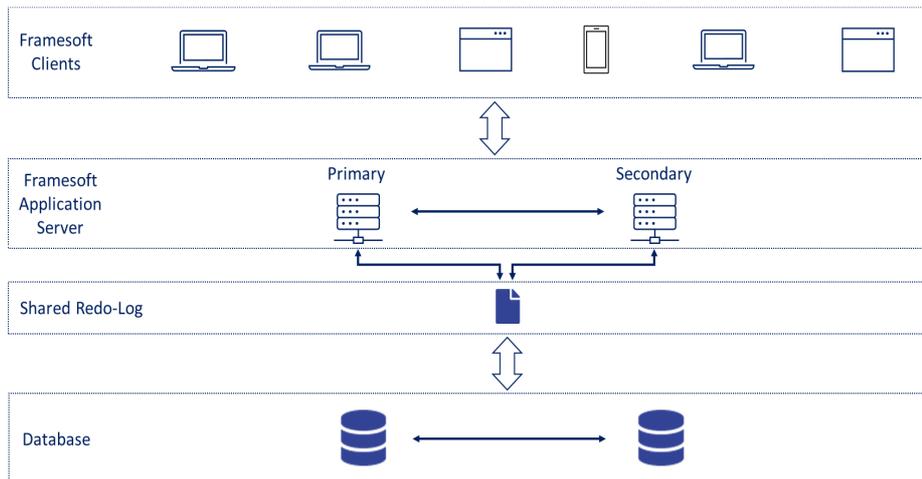


Uninterrupted Excellence, Anytime, Anywhere

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

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.

For more information or to engage with Framesoft High Availability solutions, contact us at contact@framesoft.com or visit www.framesoft.com.

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

Framesoft High Availability (FHA)

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 Document Intelligence (FAI)**
- **Framesoft Document Management (FDM)**
- **Framesoft Structured Products (FSP)**
- **Framesoft Fee Management (FFM)**
- **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)**
- **Framesoft Resource Management (FRM)**
- **Framesoft Secure Online Data Room (FDM Platform)**

Framesoft's product & services portfolio is strongly focusing on the financial services industry and covers the complete life cycle of a software solution, ranging from supporting the early conceptual application design stages, to the delivery and integration of our applications into the client's infrastructure.

Framesoft is also offering application support including

- 1st / 2nd / 3rd level production support
- business and
- user support.

Additionally, Framesoft offers to run its applications as Software as a Service (SaaS).

Framesoft was founded in 1996 with the goal to create technology solutions for innovative, fast-growing areas within the financial services industry. Framesoft solutions are built on a foundation of core modules (Frameworks) enabling rapid application development based on configuration to meet the ever-evolving needs in these markets.

Framesoft's mission is to maximize the benefits of external technology provision for our clients, by applying the Framesoft Framework strategy.

Framesoft's unique selling proposition is the support of complete value chains including areas typically conducted by means of unstructured tools such as paper, e-Mail, facsimile, or telephone.

Customers using Framesoft solutions

- achieve a high degree of **Straight through Processing (STP)**,
- avoid typical **operational risks** associated with manual interventions,
- gain **control** over complex business processes,
- increase Business **Process Efficiency & Transparency**,
- cut **Time-to-Market**,
- reduce **Legal & Credit Risk**

Framesoft's headquarter is located in Zug, Switzerland and Framesoft runs subsidiaries with offices in

- Europe
 - ✓ Switzerland
 - ✓ Germany
 - ✓ United Kingdom
- North America
- Asia

Get in contact with us at contact@framesoft.com or visit our website at www.framesoft.com.