

OpenFrame Solution Brief

Legacy mainframes are expensive and inflexible, and organizations are looking to modernize their systems with minimal business disruption. Many choose mainframe migration solutions, such as OpenFrame. OpenFrame from TmaxSoft gives you the freedom to migrate your legacy mainframe applications on Linux, Unix, Docker Containers or the public cloud. When you migrate your legacy applications, you not only see significant cost savings, but you also get the greater flexibility needed to drive and deliver instantaneous, highly personalized experiences.

Quick view

OpenFrame migrates legacy COBOL, Assembler, PL/I, and Easytrieve applications on a distributed platform by recompiling the original source code on a Unix/Linux box. OpenFrame supports the migration of technologies including JCL, CICS, IMS DB/DC. OpenFrame can be a full mainframe replacement, a destination for orphaned apps, a way to off load MSU/MIPS, or a pathway to the cloud. OpenFrame modernizes these mainframe applications by allowing modern API's to connect to these applications, opening up the applications into a three-tiered architecture (UI, Applications, and data), and moving to open system platforms. OpenFrame is a solution to many of the problems associated with legacy applications on the mainframe.

OPENFRAME WORKS ON/WITH:

OS: Linux, Unix, z/Linux

Programming Languages: COBOL, Assembler, PL/I, Easytrieve Plus, CICS, IMS DC, JCL, C/C++, JAVA, Shell scripts, and more...

Database managers: DB2 UDB, Tiberio, Oracle, My SQL, SQL server, Azure SQL, Aurora DB, VSAM, IMS DB, IDMS DB

Security: RACF, ACF2, Top Secret

Business challenge

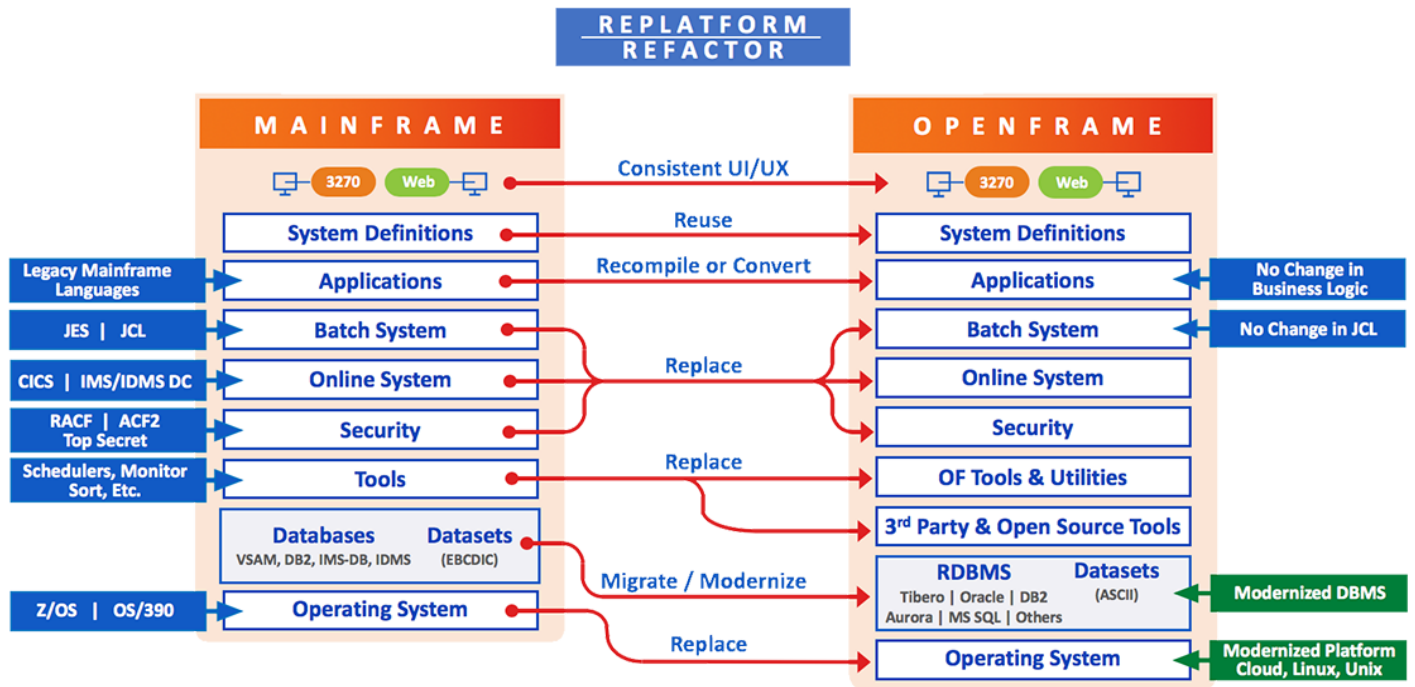
Many early adopters of IBM mainframes are struggling with the same group of issues. What should I do with my legacy applications? The mainframe offers a very stable platform with great performance. Many of these applications are used in business-critical applications, and need to be accessible for day to day operations. The problem could be a combination of costs skyrocketing, longer-term decommission plans, integration into modern systems, or lack of talent to maintain these applications. This is where OpenFrame steps in. OpenFrame allows businesses to pick up these valuable applications and move them to a new platform. OpenFrame moves the application without any changes to the source code, JCL's, and data. The application looks, feels, and performs exactly as it did on the mainframe, but now on a distributed platform. Since the application remains the same, there is little risk to the application and the other applications it interacts with.

Product overview

OpenFrame is a complete proprietary migration solution for IBM, Fujitsu, and Hitachi mainframes. It migrates your legacy mainframe applications on Linux, Unix, Docker Containers or the public cloud. OpenFrame is the only product on the market that provides a comprehensive solution for migration with its support for various programming languages, runtime environment, automated security migration and various mainframe utilities.

- OpenFrame supports various programming languages including COBOL, Assembler, PL/I and Easytrieve.
- OpenFrame supports migration of various runtime environments including JES, CICS, IMS and IDMS environments
- OpenFrame enables automated migration of mainframe security rules to OpenFrame security product TACF.
- OpenFrame provides various utilities including SORT, IDCAMS, IKJEFT01, as well as others that are commonly used in mainframe to minimize any changes to the application.

Unlike other solutions, OpenFrame can scale both vertically and horizontally and has demonstrated that it can support 100,000 MIPS and more.



Product benefits

- Cost reduction
- The lowest risk approach for mainframe modernization
- Native COBOL, Assembler, PL/I compilers
- Meets highest security standards
- Mainframe-like reliability
- Cloud ready
- Integrations with modern apps through API's
- 6-12 month project timeline
- 100% success rate in migration projects
- Can be a full or partial mainframe replacement
- Helps with reengineering projects
- Supports automated conversion of other technologies including Natural, IDEAL, Quickjobs, Adabas, Datacom etc., using partner services

Technical benefits

- Web-based monitoring and management environment for OpenFrame (OFManager)
- Increased developer productivity based on Eclipse based IDE (OFStudio)
- Automated migration of granular mainframe security rules (TACF)
- Support for various mainframe system utilities like SORT, IDCAMS and IKJEFT01
- Automated source code assessment and migration (OFMiner)
- CICS/IMS screens can be accessed via a web browser and as well as 3270 terminal emulation software
- Data is converted from EBCDIC to ASCII which is more portable
- Provides the flexibility of running the application on public/private cloud or on-premise hardware
- Supports 3-Tier architecture which helps in scalability and reliability
- Supports high available architecture with the implementation of active-active cluster configuration

Supported Operating Systems

Linux x86 2.6+ (32-bit, 64-bit)
 Red Hat 7.x, 8.x
 CentOS 7.x, 8.x

Linux ia64 2.6 (32-bit, 64-bit)

Solaris 10 (SunOS 5.9 & 5.10) (32-bit, 64-bit)

IBM AIX 5.x or 6.x (32-bit, 64-bit)

HP-UX ia64 11.xx (32-bit, 64-bit)

HP-UX PA-RISC 11.xx (32-bit, 64-bit)