

IBM IMS Migration and Modernization Solutions



Highlights:

- Typically reduces annual operational costs 30–70%
- Offers a scalable, native environment to deploy migrated IBM IMS applications and data on open systems
- Minimizes risk by preserving existing application logic, communications, screens, and data access elements
- Enables direct, relational SQL access to legacy IBM IMS data
- Supports IBM IMS Connect and MFS screen functionality
- Provides a proven platform for future application evolution

Reuse, recycle, and renew valuable legacy applications and data

Clerity offers complete and cost-effective solutions for migrating and modernizing IBM® Information Management System (IMS™) workloads. With Clerity, existing application investments are protected and hierarchical IBM IMS data is quickly transformed into popular relational database management systems (RDBMS) such as Oracle® Database and Microsoft® SQL Server®. This innovative migration approach typically reduces annual operational costs 30 to 70 percent and enhances IT agility by providing immediate, direct SQL access to valuable legacy data across the enterprise. The incremental savings generated by eliminating annual IBM IMS software licenses and related mainframe third-party software utilities can be directly applied to an organization's bottom line or redirected to new IT initiatives such as end user interface modernization or a Service Oriented Architecture (SOA).

Blending the best of both worlds

The valuable business logic and data maintained in long-standing IBM IMS Transaction Manager (TM) and IBM IMS Database (DB) systems would be expensive to re-engineer and risky to redevelop with commercial off-the-shelf (COTS) software. By leveraging proven UniKix™ Mainframe Rehosting technology, mainframe-compatible IMS TM and IMS DB processing capabilities, and a comprehensive suite of automated migration tools and procedures, time-tested IBM IMS environments can be efficiently migrated and deployed intact on cost-effective, scalable open systems environments.

Benefits of Clerity's innovative approach to IBM IMS migration and modernization include:

- Delivering significant cost savings with minimal risk by preserving existing application and data investments.
- Enabling application development and operations to continue undisrupted during implementation.
- Providing equal or better performance on the new target platform.
- Maintaining existing client interfaces to reduce retraining requirements and end user impact.
- Eliminating unplanned cost and post-implementation complexity by addressing the complete environment, including third-party tools and utilities.

IBM IMS migration and modernization solution details

Clerity uniquely combines UniKix Mainframe Rehosting software, automated migration tools, and comprehensive, end-to-end service methodologies to migrate and modernize valuable IBM IMS workload environments on affordable open systems. These components provide an integrated, robust solution to address a range of configurations, including:

- Environments deploying IBM IMS TM applications accessing IBM IMS DB data
- Environments deploying IBM® CICS® applications accessing IBM IMS DB data
- Environments deploying IBM IMS TM applications accessing IBM® DB2® data
- Environments deploying batch applications accessing IBM IMS DB data

Deployed at more than 1,300 production sites worldwide, UniKix Mainframe Rehosting software provides a high performance, native environment for deploying mission-critical online and batch workloads on a range of platforms including HP-UX, IBM® AIX®, Linux®, Linux on IBM® System z®, Oracle® Solaris™ and Microsoft® Windows®. Mainframe-compatible transaction processing capabilities in UniKix enable existing IBM IMS application logic, end user interfaces, and database models to operate intact in a new, cost-effective target environment.

- Transactions, communications, screens, data access elements and the IBM IMS hierarchical data model, run largely unchanged in scalable UniKix regions.
- Automated tools and migration procedures enable IBM IMS DB systems to be quickly transformed into modern, relational databases, while native bridging technology allows legacy data access calls to continue unchanged.
- Existing 3270 Message Formatting Services (MFS) screen services and IBM IMS Connect gateway interactions are preserved, so end user operations continue undisrupted after a move.

Move ahead with confidence

Clerity provides a comprehensive suite of tools, including a graphical user interface (GUI) for analyzing IBM IMS environments. Because IBM IMS database description blocks (DBDs), program specification blocks (PSBs), and related attributes are thoroughly analyzed and addressed prior to migration, performance on the target rehost platform often equals or surpasses the legacy system.

Transaction integrity, resource management, and security are addressed by multi-threaded, scalable UniKix software.

Indexing, table partitioning, and data definition enhancement techniques can be deployed after an initial move, if desired, to further enhance response times.

Clerity's innovative approach to IBM IMS transformation provides immediate and direct SQL access to valuable legacy data, enabling easier information access and integration across the enterprise. While legacy applications continue to call IBM IMS data with traditional constructs, modern J2EE and .NET technologies and applications have immediate data access as well; an approach that mitigates risk without adding complexity.

Post migration, developers have the choice of continuing to program within familiar IBM IMS constructs or to move to popular industry frameworks such as SQL. Being able to develop with well-known message format and PCB-based interfaces or to gradually introduce new paradigms enhances flexibility without impacting productivity or requiring significant retraining.

End-to-end methodology

Clerity's innovative IBM IMS migration technology is complemented by a comprehensive suite of migration and modernization services.

As depicted in Figure 1, *End-to-End Solution Approach*, the Clerity IBM IMS migration process follows a well-structured set of steps to reduce risk and deployment time across the entire project lifecycle:

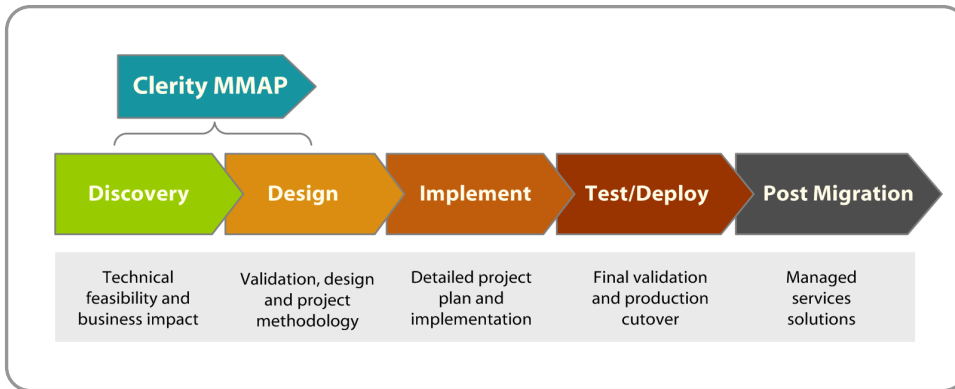
1. Discovery

During the Discovery phase, organizational goals and directives are matched against budget, technical environment, and system requirements. This enables informed decisions to be made by providing return-on-investment (ROI) and technical feasibility information to stakeholders evaluating IBM IMS migration solution paths.

2. Design

Once the proper path is decided upon, thorough analysis is performed in the Design phase. With an IBM IMS migration, all application and data elements are identified upfront. Items such as jobs, programs, copybooks, files, PSBs, DBDs, etc. are cataloged to determine the full magnitude and sequence of a migration project, as well as to eliminate unnecessary conversion of obsolete elements. Clerity analyzes not only the components making up the application being migrated but also its integration points and workflow interfaces to other areas of the IT infrastructure.

Figure 1. End-to-End Solution Approach



By offering migration and modernization services that address the complete IBM IMS migration lifecycle, Clerty can help ensure successful, low-risk implementations for projects of any magnitude.

3. *Implement*

During the Implement phase, a detailed project plan is executed. Hardware infrastructure, applications, and data are migrated to the new target system, resulting in an environment that is ready for final testing, quality assurance and then production deployment.

4. *Test and Deploy*

Rigorous testing performed during the Test and Deploy phase makes certain that all predefined project objectives have been met. During this period, all customer test requirements, including regression and end user acceptance tests, are validated on the target environment.

5. *Post Implementation*

Ongoing system administration and maintenance activities to better manage the health of an environment following production deployment are offered during the Post Implementation phase. These optional services can include help desk, support triage, short term turnover services, and ongoing application maintenance.

Transitioning from one environment to another involves coordinating hardware platform requirements, software, and operational issues such as training, best practices, security standards, and governance. The proper balance of all these considerations helps avoid business disruption.

Completing the picture

Clerty's deep mainframe and open systems services bench can provide project management for the complete lifecycle of any migration. Our service experts can tailor a migration solution with the level of service required to make your implementation successful, and our infrastructure experts can offer consultative advice for other necessary hardware and software components as required. The combination of strong products, technical expertise, and flexible service offerings makes Clerty the best choice to migrate IBM IMS mainframe systems to cost-effective, open environments that encourage new opportunity and cost savings for your business.

About Clerity

Clerity is a leading full-service provider of mainframe migration, modernization, and optimization solutions. Drawing from over 16 years of experience, Clerity recognizes that companies have significant investments in core applications and procedures and provides a wealth of low risk, high value tools, technology, and services to reduce IT costs without sacrificing current functionality and service level agreements. Headquartered in Chicago, Illinois with offices worldwide, Clerity has customers in all in major countries, including some of the largest financial services ISVs and Fortune-class end users.

Learn how Clerity can provide an evolutionary path forward for your application and data environments at www.clerity.com.



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