

Clerity Infrastructure Services for Migration & Modernization



Highlights:

- Address the complete migration picture -- including platform, software and operational characteristics -- before, during and after a migration
- Tailor flexible, complementary Clerity infrastructure services to fit your individual business requirements
- Provide the basis for a robust, scalable, and functional infrastructure to help ensure a safe, successful migration and modernization project

Proven, end-to-end migration and modernization infrastructure practice

When it comes to moving long-established mainframe environments to open systems, there is no such thing as a “typical” migration project. What these initiatives usually have in common, however, is that addressing the core applications and data is just part of the puzzle. Handling hardware platform, third-party software, and operational requirements can be equally as important during these moves. With an extensive mainframe and open systems heritage and a range of proven service methodologies, a Clerity Infrastructure Practice engagement can help ensure a smooth, successful move forward for your organization.

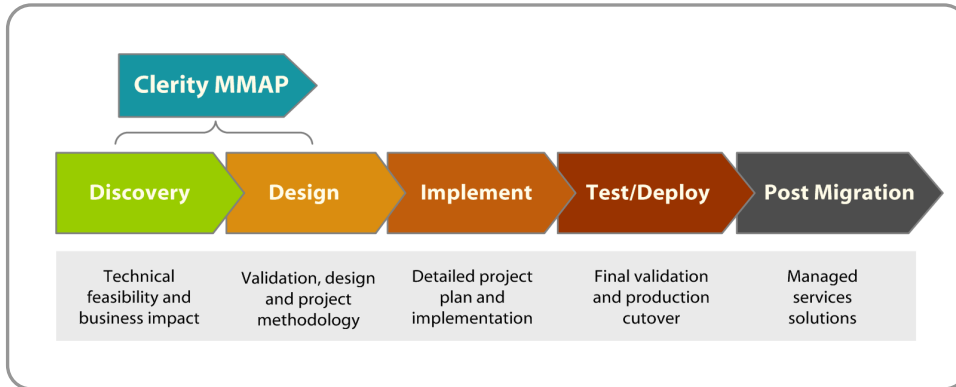
Balanced, comprehensive approach

Clerity provides a comprehensive suite of migration and modernization infrastructure services to assist customers with moving legacy infrastructures to new platforms. Transitioning from one environment to another commonly involves coordinating hardware platform requirements, software requirements (to provide replacement functionality and features on the new target platform), and operational issues such as training, best practices, security standards, and governance. The proper balance of all these considerations helps avoid business disruption. Clerity uniquely offers the expertise, training, and support services to address all of these areas, reducing risk, production deployment time, and overall project cost for our customers.

Platform expertise

In addition to basic server and storage selection and procurement assistance, Clerity’s experienced team is highly skilled at handling the sizing, networking, interoperability, security and high availability (HA) standards needed to effectively migrate mission-critical workloads. With expertise on Windows™, UNIX® and Linux® based environments, in addition to legacy mainframe systems, Clerity personnel can design, implement and configure platforms, domains (LPARS), virtualization platforms, and cluster environments serving roles such as production, back-up, development, quality assurance, operational sandbox and production assistance, as well as optimize storage layouts specific to your operating needs. Infrastructure experts from Clerity are also skilled at establishing disaster recovery/business continuity plans, load balancing, and NAS or SAN deployments. Clerity can provide ongoing help desk support or teach your team how to implement these services themselves and handle the daily care and feeding of a new target environment post implementation as required.

Figure 1. End-to-End Solution Approach



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

Software expertise

Clerity is well-practiced at addressing mainframe application and data environment such as IBM® CICS® applications, IBM® IMS® transactions, COBOL, JCL/Batch, but equal or even more time and attention often needs to be paid to the other software products that are tightly integrated with these central systems when transitioning to open systems. Clerity’s infrastructure experts are highly proficient in recommending, sizing, pricing, configuring, migrating, implementing, administering, and maintaining the wide-range of related infrastructure software products, databases, and utilities typically utilized by replacement target operating environments.

Our expertise and years of experience in this area have been captured in the Clerity Mainframe Rehosting Reference Architecture (MFRRA), which provides a scalable framework for addressing such workload-specific requirements. By identifying and sourcing all the third party products and replacement utilities that will be required on the new platform, you can be assured that your application will continue to run smoothly and Quality of Service will be maintained on the new environment.

Operational expertise

If your team is still performing its “day job” during a migration, Clerity can compliment and augment your staff to make sure that all proper configuration, installation, administration and maintenance decisions have been made and implemented on the new target environment for smooth ongoing operations. This can include executing your organization’s governance, security, and disaster recovery standards on the new platform. Clerity personnel are also available to assist with establishing test cases, providing help desk support, and on-going application maintenance and development services as required.

Clerity can also assist in transitioning or integrating operational information and data that does not necessarily

belong to any single application including batch schedule, security configuration, and archive through migration design and implementation services.

End-to-end project lifecycle methodology mitigates risk

Clerity’s proven, cost-effective migration practices are designed to reduce risk and deployment time across the entire migration project lifecycle. As seen in Figure 1, *End-to-End Solution Approach*, our complete methodology is applied equally to platform, software and operational issues during infrastructure migration.

Discovery phase

During the migration Discovery phase, your individual goals and strategic directives are taken into consideration and matched against an initial analysis of existing budget, environment and system requirements. Desired project timeframe and available skill sets are also weighed against technical realities to determine the best solution path forward for your business. The discovery period of a Clerity project minimizes risk and provides an unbiased assessment of your migration readiness. This phase enables informed decisions to be made and provides ballpark return-on-investment (ROI) and technical feasibility information to enable stakeholders to evaluate all relevant information about potential solution paths.

A Clerity Migration and Modernization Assessment Project (MMAP) undertaken during the Discovery phase can incorporate application migration as well as infrastructure and operational assessment and design requirements to finalize a solid approach for the overall migration and target operating environment.

Design phase

The primary objective of the Design phase is to validate initial analysis, refine the design approach, and prepare the overall project methodology. Drawing from many years of

experience, Clerity Infrastructure Practice consultants utilize proven project methodologies, consultative discovery and assessment tools, and mapping standards to determine the best strategy for an individual implementation and its potential ROI. The Design phase can include:

- An in-depth examination of the current hardware infrastructure, target hardware operating environment standards, and other customer requirements to create a detailed target infrastructure proposal (a target hardware infrastructure reference architecture). Sizing information and a suggested project procurement timeline is also determined.
- A thorough review of current operating environment software, any target software operating environment standards, and other customer requirements to create a detailed software mapping proposal (a target operational software reference architecture).
- A study to address requirements to
 - Transition of one or more sets of operational information/data (e.g., batch schedule, security configuration, archive) to other platforms, or
 - Integrate or access this information differently as part of an application migration (e.g., distributed scheduling, central security repository synchronization with local security repository, archive migration just-in-time, etc.).
- An investigation of current operational practice and norms on both current and target operating environments to develop operational practices and training to enable, equip, and empower operational teams in the administration, management, and operation of the target hardware and software environment.

The Design phase prepares your business for success by thoroughly assessing the complete IT environment and preparing an optimized project design that can be implemented with confidence.

Implement phase

During the Implement phase a detailed project plan is executed in which your 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. The Implement phase typically involves procuring, staging and implementing all required hardware and software components; migrating application, data systems and third-party utilities; as well as establishing proper operational requirements such as security, HA and governance.

Implementation of various infrastructure components can be performed by in-house resources and/or Clerity personnel, as established in the detailed project plan. Required staff training is typically completed during the Implement phase to ensure that the technical staff responsible for maintaining and supporting the target environment will be well prepared for production cutover. Clerity utilizes proven project management practices, communication standards, and delivery methodologies to mitigate risk and increase efficiency during implementation.

Test and Deploy phase

Rigorous, thorough tests are performed during the Test and Deploy phase to make 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 operational environment. Operational readiness testing ensures staff readiness for handling both normal and exception situations on the target operating hardware and software environment. Development and performance support, along with production readiness services, and cutover testing support may also be involved. Once all the objectives of the detailed project plan have been validated, production roll-out can occur.

Post Implementation phase

Ongoing system administration and maintenance activities to better manage the health of your system following production deployment are offered during the Post Implementation phase. These services can include help desk, support triage, short term turnover services, and ongoing application maintenance and development. Governed by a predetermined Service Level Agreement (SLA), Clerity can carry out routine maintenance duties and a range of optional professional services to meet your specific business needs without requiring you to take on additional staff.

Completing the picture

Clerity's deep mainframe and open systems service 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, deep expertise, and flexible service offerings makes Clerity the best choice to migrate mainframe systems to cost-effective, open environments that encourage new opportunity and cost savings for your business.

About Clernity

Clerity is a leading full-service provider of legacy migration, modernization, and optimization solutions. Drawing from over 16 years of experience, Clernity 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, Clernity has customers in all in major countries, including some of the largest financial services ISVs and Fortune-class end users.

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



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