

SHIFT WITH CONFIDENCE

Mainframe Alternative Migration Services from HPE

Key reasons to make the move

- **Operating costs:** The hardware, operating system, database, and third-party application costs associated with MF are high, and they continue to increase.
- **Footprint and power costs:** Standards-based hybrid cloud platforms now match the performance of MF while using less power and having a smaller footprint.
- **Availability of skills:** Staffing needs are much easier to meet when you run workloads on hybrid cloud platforms. As the MF operations workforce gets older, these skills may no longer be available.
- **Inflexibility:** MF have traditionally been run in a hosted IT environment—a structure that makes it extremely expensive to scale. In contrast, HPE standards-based hybrid servers and/or [HPE GreenLake](#) enable you to scale cost-effectively and leverage better application development capabilities.
- **Choice of applications:** Thousands more up-to-date applications are available on Intel-based servers than on MF, offering greater choice to meet your IT and business needs.
- **Utilization:** HPE hybrid platforms/servers utilize a range of [virtualization](#) tools that enable you to enhance the consolidation of workloads and improve utilization levels.
- **Digital transformation:** Accelerate your journey of migrating application workloads from MF to hybrid cloud.

THE MOVE TO A LOW-COST, HIGH-AGILITY ENVIRONMENT

In the last few years, many organizations have started to move large, mission-critical workloads away from mainframes (MFs) to hybrid cloud platforms. The reason for the migration is that IT departments are under pressure to adapt to the business needs of the digital era while cutting operational costs and increasing the agility to roll out new services and systems quickly and cost-effectively. And this can only be achieved by simplifying the environment, improving TCO, and reducing dependency on legacy technologies—all of which can be addressed by migrating to hybrid cloud environments.

Many organizations have made the move to hybrid cloud, migrating mission-critical workloads to Intel®-based servers with the help of Hewlett Packard Enterprise. The migrations involved partial or full replacement of the MF environment with other alternatives. While most expect to reduce TCO by more than 50%, some may achieve more than 70% TCO savings. By migrating to an open systems environment, you can also take advantage of different pricing models for cloud solutions and increased efficiency through data center standardization, which can be supported with additional services and infrastructure.

RELY ON HPE'S EXPERTISE AND EXPERIENCE AT EVERY STEP

As legacy MF environments support mainly business-critical applications, you can rely on HPE migration experts—with over two decades of experience—to help ensure business continuity throughout the migration process. We've designed the MF Alternative (MFA) methodology, combining proven processes and tools. The methodology offers four key services: MF Migration Business Case Service (BCS), MF Migration Roadmap Analysis (MRA), MF Migration Design and Planning (DAP), and MF Migration Implementation Service (MIS). These services make up the HPE MFA Migration services portfolio and span the entire end-to-end migration journey.

- **MF Migration Business Case Service (BCS):** If you're considering a migration of your MF environment to hybrid cloud environment, the first step is to understand the business case and migration feasibility of such a project—which the BCS is designed to address. The BCS focuses on fast, low-risk migration strategies such as rehosting, replatforming, and containerization as the first step, helping to accelerate your application workloads migration from the MF to hybrid cloud.

The service is a 4- to 5-week consulting engagement. It helps build the business case for full MF migration, including a 4-year TCO/ROI economic analysis, technical feasibility, and timeline feasibility. Other deliverables include a high-level target design concept, source-to-target migration mapping, high-level project plan, and schedule showing major phases, activities, and milestones, as well as information on risks and impacts.



- **MF Migration Roadmap Analysis (MRA):** With a large MF environment, it is always difficult to know where to start when planning migration to an open systems environment. You need to understand how such an MF environment can be migrated in phases and what could be part of each of those phases. Moreover, you need to work out the potential roadblocks, dependencies, support and technical constraints, and overall business case. The MRA is designed to offer the clarity and insights required for you to develop a thorough understanding of these factors so that you can arrive at the right decisions faster and focus on what's visible and supported by an actionable plan.

The MRA is an 8- to 12-week consulting engagement. Though the deliverables are the same as that of the BCS service, the duration is longer, as it helps build a more elaborate business case when phased migration of a vast MF estate is involved. The analysis covers how the environment can be partitioned and the order in which the migrations should occur.

- **MF Migration Design and Planning (DAP):** This service is the final step before embarking on migration implementation. And it is designed to cover the aspects of the due-diligence process to help mitigate migration risks and provide the best possible start for a successful migration implementation project. Though a DAP follows either a BCS or an MRA engagement, it can be a stand-alone engagement for those who already have clarity on the need for an MF migration as well as a high-level scope establishing that a single project migration is feasible.

This is an 8- to 12-week consulting engagement. It identifies the factors that can cause project delays or cost overruns. The factors include complex technical issues, large additional scope, resource constraints, and unclear roles and responsibilities. After performing the in-depth analysis and due diligence required to enable smooth migration implementation, a fixed-price migration implementation proposal is finalized.

- **MF Migration Implementation Service (MIS):** This is the actual MF migration to open systems from HPE, using the MF Migration Center of Expertise from HPE. On average, it could take about 12 months but could be as long as 18 months. For extremely large MF environments, it could be a number of projects over several years.

The migration implementation process from HPE covers the aspects of replacing the MF environment—including online and batch architecture, application and data migration, security, printing, management, and hybrid cloud infrastructure. It is designed to enable a low-risk migration with an extremely minor impact on day-to-day business operations.

Our migration approach is built on the strength of our own transformation tools combined with that of third-party products that support our meticulous methodology paths. These resources enable our migration teams to have a real-time view of the actual status of objects being migrated during the transformation project and to offer you solutions aptly tailored for your environment.

These HPE MFA migration services enable complete, partial, or phased MF migration to various hybrid cloud platforms by rehosting and containerization custom applications and replatforming/replacing MF products with hybrid cloud environment.

Rehosting and containerization involve automating, as much as possible, the migration of code and data, making just enough changes to the code to enable it to work in the target environment. This low-risk approach is faster and less expensive than other approaches such as reengineering.



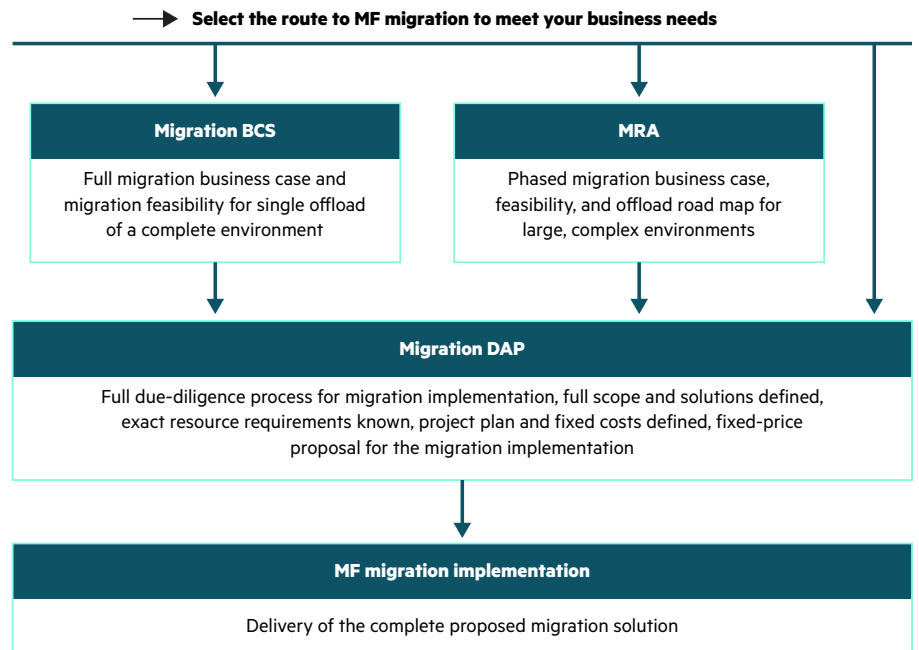


FIGURE 1. HPE MFA high-level process

THE RIGHT PARTNER CAN MAKE ALL THE DIFFERENCE

HPE brings over 20 years of experience in helping organizations successfully replace MF environments with target hybrid cloud and server platforms that match various customer reliability, availability, and scalability (RAS) requirements and price points. We’ve consistently delivered compelling ROI because of key factors such as:

- **Low-risk, high-return approach:** High-skill migration expertise and proven migration methodology
- **Complete MF replacement solution:** A broad range of servers and software, storage, and networking products; end-to-end services that cover monitoring, systems management, security, and quality; and the ability to combine heterogeneous products
- **Smoother transition:** Automated tools and HPE MFA CoE frameworks that make high-availability platforms and environments from HPE fast and easy to configure
- **Wide range of hybrid cloud platforms from HPE:** To match various RAS requirements and price points
- **More value for less:** Equivalent or higher RAS for core systems than the MF at much lower costs and faster time to market of new services and new site deployments enabled by the hybrid cloud platforms tooling and agile DevOps

No one solution fits all, as each organization’s needs and preferences are different. We tailor solutions to suit diverse needs, workloads, and performance SLAs. For example, we can move systems requiring 99.999% RAS and near-linear scale up to hybrid cloud platforms at 50% to 70% less the cost of the MF environment to match your operating system strategy and needs.





CONNECT WITH HPE TECHNOLOGY EXPERT

You rely on technology to run your business efficiently. To stay competitive and capitalize on new revenue opportunities, you have to learn how to access technology in new ways. Team up with the Advisory and Professional Services and support experts to help you take full advantage of technology investment to drive your business outcomes. Combining technical expertise with business intelligence, our service professionals help organizations across the globe meet their evolving needs. They can do the same for you. Connect with our service experts to explore ways to do more with your technology investments and move your business forward.

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