

Mainframes – Services and Solutions

Mainframe as a Service (MFaaS)

A research report comparing providers and software vendors strengths, challenges and competitive differentiators

Customized report courtesy of: TECHNOLOGY

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About Our Company & Research

Executive Summary

Report Author: Pedro L Bicudo Maschio

Compliance, agility and cost are driving the market

The mainframe market findings for 2023 are in line with client priorities identified in 2022 when ISG interviewed a group of ISG client executives in the U.S. to understand how the macroeconomic climate impacts their spending plans on technology services. The clients represented multiple industries, including insurance, retail, manufacturing and energy. Most clients are reprioritizing their technology budgets to focus on investments that produce results in the short term. At the same time, almost all organizations recognize the importance of technology modernization.

Trends in mainframe modernization are similar across all countries in the Americas because IBM and Unisys, the major suppliers of mainframe technology, support clients seamlessly across the region. In 2022, mainframe clients increased outsourcing and

accelerated their mainframe modernization plans. Outsourcing enables clients to assess their spending and find opportunities to optimize operations, replace middleware tools and add automation. When opting for a mainframe-as-a-service (MFaaS) deal, additional savings are from opting for a shared environment and gains of scale that reduce licensing costs.

Modernization can provide additional benefits, and either starts with outsourcing or is set into motion after that. Modernizing applications running on mainframes improves application performance and reduces MIPS requirements, further reducing costs. New data solutions, such as the ones provided by Model9 and Precisely, can facilitate mainframe data access, enabling clients to move data from expensive mainframe storage to low-cost cloud storage, but without the need to replace or modify mainframe applications.

A few enterprises modernize COBOL to insert APIs and DevOps, with percentage utilization under 15 percent – the same trend observed in previous years. The new trend in mainframe

ESG is impacting mainframe modernization demand.

Executive Summary

modernization is data integration, with bi-directional integration or ETL to use analytics in the cloud. Data analytics continue to drive demand for mainframe modernizations.

Data analytics continue to drive demand for mainframe modernization. Mainframe migrations to the cloud have accelerated. Hyperscalers continue to invest in marketing and in developing partners' capabilities. AWS and Google are more active in promoting partner capabilities and in incentivizing clients to take modernization initiatives, in comparison with Azure that is not as intense in marketing, but equally relevant as a cloud destination.

Besides data access and cost savings, migrations to the cloud enable enterprises to standardize their application portfolio development workbench. Converted applications use the same DevOps and continuous integration tools, improving the agility and quality of the applications.

ESG is impacting mainframe modernization demand. Mainframe hardware can be energy efficient, but its surrounding technology is not. Also, updating client-owned data centers to comply with changing regulations can have cost implications. By migrating applications to the cloud, enterprises benefit from locations that use clean energy and are certified carbon neutral. Most cloud data centers do not meet this requirement, but all hyperscalers have committed to meeting their ESG targets before 2030. Concerns and regulations around environmental control vary by country; it is more important in the U.S., with a minor impact in Brazil.

The governance aspect of ESG is also pushing modernization. To comply with regulations around data availability, location and sovereignty, auditors may have doubts about the ability of legacy applications to meet privacy, data loss prevention, location and access control requirements. The old answer that mainframes are secure is not adequate for certification; the doubt surrounds the application. Most enterprises do not have the documentation or test cases to prove compliance. In some particular cases, data originating in one country should not be accessed, stored or processed in another. Replicating the mainframe in many locations

to comply with regulations would be extremely expensive, but refactoring the applications to run in the cloud can be fast and involve low risk, besides producing the documentation and tests to prove compliance.

The cloud has proven to provide better scalability and performance than mainframes, with the additional benefit that it enables easy replication in different cloud regions, thus ensuring higher availability and business resilience.

Mainframe migration to the cloud involves cost reductions, technology modernization, controlled data access and compliance with increasing ESG regulations. Service providers have accumulated many success cases to predict the time required for modernization, ensure transparency on cost and risk factors, and have the required controls for incremental modernizations.

The providers of mainframe migrations to cloud are experiencing growth beyond their expectations. Any obstacles in expansion arise from the need for training and educating more practitioners to operate the application

refactoring tools. Tools are innovative and use high-end technology and sophisticated software engineering methodologies.

The market is characterized by three modernization strategies:

- Replatforming adjusts an application code
 to run on emulators in the cloud or uses
 compilers to build executable code that
 runs natively on cloud virtual machines.
 This approach simplifies the process and can
 be scaled fast. However, legacy application
 source codes remain untouched and are
 not modernized.
- Rewriting uses compilers and translators to convert legacy languages to new ones, usually Java, C# or .Net. This approach retains application logic and behavior. Most tools generate readable and maintainable code, allowing clients to maintain applications in the new language. A few solutions do not generate a readable code and all subsequent changes are made in the legacy source code. Rewriting is popular among vendors.



Executive Summary

 Reengineering uses automated assessment tools that extract business rules and design the application flow, which is useful for documentation. It creates code requirements that Al-assisted tools interpret to write a new code. The full process is automated but manual intervention is needed to correct the interpretations used to write the new code.

All methods require data extraction from the mainframe databases and for files to be loaded into new databases and cloud storage. Testing automation is fundamental for success and risk control. Vendors run tests multiple times to achieve success. Tests need to include application, performance and database conversion.

Many vendors and service providers compare the cost of mainframe infrastructure with cloud infrastructure. It is noted that mainframe system, database and storage licensing comprise most of the savings from any modernization initiative.

These factors, among other drivers, impact the modernization software market

Vendors are passionate about their solutions and often tend to overlook their limitations. Clients should always prioritize consulting, project management and risk management to bring projects that do not deliver the desired outcomes to a stop. No single tool can address all legacy languages and modernization options, requiring clients to select a toolset that involves several vendors.

A cloud infrastructure offers high performance and scale to run sophisticated modernization tools, where vendors use cloud capacity to further improve their tools. A major innovation this year is Google Dual Run, a solution developed in partnership with Micro Focus that enables clients to compare a mainframe application in production with the same application running on Google Cloud. It is not a simple setup, but has proven to be valuable to highlight application performance, integration and accuracy before removing the application from the mainframe.

AWS announced its mainframe migration service in 2022. It aims to leverage the AWS Marketplace to deliver Everything as a Service, including modernization tools and consulting services. The company is assessing and certifying partners to ensure usability, capacity and the quality of outcomes and service levels.

The focused activities of the hyperscalers in the mainframe modernization market portends that it will continue to accelerate, with mainframes gradually moving to the cloud. It is too early to say that all mainframes will migrate. At the current pace of migration it would take years, perhaps more than a decade, to migrate all mainframes. However, small modifications in IBM licensing terms and hardware prices could change the game entirely.

Data analytics continue to drive demand for mainframe modernization.



Provider Positioning

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	Mainframe Modernization Services	Mainframe Application Modernization and Transformation Services, U.S.	Mainframe Application Modernization and Transformation Services, Brazil	Mainframe as a Service (MFaaS)	Mainframe Operations	Mainframe Application Modernization Software
Accenture	Not In	Leader	Leader	Not In	Not In	Not In
Adaptigent	Not In	Not In	Not In	Not In	Not In	Contender
Advanced	Not In	Product Challenger	Not In	Not In	Not In	Leader
Astadia	Not In	Not In	Not In	Not In	Not In	Leader
Avanade (Asysco)	Not In	Product Challenger	Not In	Not In	Not In	Leader
Atos	Product Challenger	Leader	Contender	Product Challenger	Product Challenger	Not In
AveriSource	Not In	Not In	Not In	Not In	Not In	Product Challenger
AWS	Not In	Not In	Not In	Not In	Not In	Leader
ВМС	Contender	Not In	Not In	Not In	Not In	Not In
BRQ	Not In	Not In	Contender	Not In	Not In	Not In



Provider Positioning

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	Mainframe Modernization Services	Mainframe Application Modernization and Transformation Services, U.S.	Mainframe Application Modernization and Transformation Services, Brazil	Mainframe as a Service (MFaaS)	Mainframe Operations	Mainframe Application Modernization Software
Capgemini	Leader	Leader	Product Challenger	Product Challenger	Leader	Not In
CloudFrame	Not In	Not In	Not In	Not In	Not In	Contender
Cognizant	Market Challenger	Product Challenger	Not In	Leader	Product Challenger	Not In
Compass	Not In	Not In	Contender	Not In	Not In	Not In
CPT Global	Product Challenger	Product Challenger	Not In	Not In	Not In	Not In
Deloitte	Not In	Product Challenger	Contender	Not In	Not In	Not In
DXC Technology	Rising Star ★	Leader	Product Challenger	Leader	Leader	Not In
Ensono	Leader	Product Challenger	Not In	Leader	Leader	Not In
FNTS	Not In	Not In	Not In	Rising Star ★	Contender	Not In
FreeSoft	Not In	Not In	Not In	Not In	Not In	Product Challenger



Provider Positioning

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	Mainframe Modernization Services	Mainframe Application Modernization and Transformation Services, U.S.	Mainframe Application Modernization and Transformation Services, Brazil	Mainframe as a Service (MFaaS)	Mainframe Operations	Mainframe Application Modernization Software
Fujitsu	Not In	Product Challenger	Not In	Not In	Not In	Not In
GFT	Contender	Product Challenger	Leader	Not In	Not In	Not In
Google	Not In	Not In	Not In	Not In	Not In	Leader
HCLTech	Leader	Leader	Not In	Product Challenger	Product Challenger	Contender
Heirloom	Not In	Not In	Not In	Not In	Not In	Leader
Hexaware	Not In	Rising Star ★	Not In	Not In	Not In	Not In
HPE	Not In	Product Challenger	Product Challenger	Not In	Not In	Contender
IBM	Not In	Not In	Not In	Not In	Not In	Contender
IKAN	Not In	Not In	Not In	Not In	Not In	Contender
Infosys	Leader	Leader	Product Challenger	Product Challenger	Leader	Not In



Provider Positioning

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	Mainframe Modernization Services	Mainframe Application Modernization and Transformation Services, U.S.	Mainframe Application Modernization and Transformation Services, Brazil	Mainframe as a Service (MFaaS)	Mainframe Operations	Mainframe Application Modernization Software
INNOVA	Not In	Contender	Not In	Not In	Not In	Not In
Kyndryl	Leader	Contender	Product Challenger	Leader	Leader	Not In
LRS	Not In	Not In	Not In	Not In	Not In	Contender
LTIMindtree	Product Challenger	Leader	Not In	Product Challenger	Product Challenger	Not In
LzLabs	Not In	Not In	Not In	Not In	Not In	Product Challenger
Maintec	Not In	Not In	Not In	Contender	Contender	Not In
Micro Focus	Not In	Not In	Not In	Not In	Not In	Leader
mLogica	Not In	Not In	Not In	Not In	Not In	Rising Star ★
Model9	Not In	Not In	Not In	Not In	Not In	Contender
MOST	Not In	Contender	Not In	Not In	Not In	Contender





Provider Positioning

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	Mainframe Modernization Services	Mainframe Application Modernization and Transformation Services, U.S.	Mainframe Application Modernization and Transformation Services, Brazil	Mainframe as a Service (MFaaS)	Mainframe Operations	Mainframe Application Modernization Software
Mphasis	Product Challenger	Leader	Not In	Not In	Contender	Not In
Natsoft	Not In	Not In	Not In	Not In	Not In	Product Challenger
NTT DATA	Not In	Contender	Contender	Not In	Not In	Contender
PSR	Not In	Not In	Not In	Contender	Contender	Not In
Raincode	Not In	Not In	Not In	Not In	Not In	Contender
Sonda	Not In	Not In	Contender	Not In	Not In	Not In
TCS	Leader	Leader	Product Challenger	Not In	Leader	Product Challenger
Tech Mahindra	Product Challenger	Product Challenger	Product Challenger	Not In	Not In	Not In
TmaxSoft	Not In	Not In	Not In	Not In	Not In	Leader
TSRI	Not In	Not In	Not In	Not In	Not In	Leader





Provider Positioning

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	Mainframe Modernization Services	Mainframe Application Modernization and Transformation Services, U.S.	Mainframe Application Modernization and Transformation Services, Brazil	Mainframe as a Service (MFaaS)	Mainframe Operations	Mainframe Application Modernization Software
TIVIT	Not In	Not In	Contender	Not In	Not In	Not In
T-Systems	Not In	Not In	Contender	Not In	Not In	Not In
Unisys	Product Challenger	Not In	Not In	Not In	Product Challenger	Not In
UST	Contender	Product Challenger	Not In	Not In	Contender	Not In
Verang	Not In	Contender	Not In	Not In	Not In	Contender
Wipro	Leader	Leader	Product Challenger	Product Challenger	Leader	Not In

Introduction

Mainframe Modernization Services This study **Mainframe Application Modernization** and Transformation Services, U.S. focuses on what ISG perceives **Mainframe Application Modernization** as most critical and Transformation Services, Brazil in 2023 for **Mainframes** Mainframe as a Service (MFaaS) Services and Solutions. **Mainframe Operations** Simplified Illustration Source: ISG 2023 **Mainframe Application Modernization** Software

Definition

Digital business transformation has been pushing companies to become more agile in adapting to market changes. The cloud provides the core agility elements, including cloud-native AI, machine learning, serverless computing, database as a service, data services, full automation and many SaaS options to improve business performance.

The more advanced enterprises are prioritizing mainframe modernization. Mainframe systems are complex and slow to change, thus pushing back against agility. These enterprises have two options. They can migrate their legacy applications to the cloud or adapt the old applications with APIs, microservices and DevOps.

Mainframe systems combine high-performance hardware, software tools, and large, individually programmed applications that are complex to replace. Thus, modernization is not a trivial task.

The market offers automation tools to transform legacy applications, without loss in functionality, into new ones in the cloud.

Such solutions enable the standardization of application languages and databases, including open-source tools.

However, many enterprises are not ready for a full exit from mainframes. They may prefer outsourcing or pay-as-you-go (PAYG) models to enable mainframe-as-a-service – thus running their legacy applications on cloud-like mainframe data centers.

This study assesses service providers that modernize mainframe applications or convert applications to run in the cloud, and those that offer mainframe outsourcing and MFaaS. Software vendors of automation tools for refactoring, rehosting, replatforming, rewriting and reengineering applications are also evaluated.



Introduction

Scope of the Report

In this ISG Provider Lens™ quadrant study, ISG includes the following five quadrants:
Mainframe Modernization Services; Mainframe Application Modernization and Transformation Services; Mainframe as a Service (MFaaS);
Mainframe Operations; and Mainframe Application Modernization Software.
The trends identified and other findings largely apply across the region. However, ISG did add a national quadrant analysis on Mainframe Application Modernization and Transformation Services for Brazil because of specific market conditions there.

This ISG Provider Lens™ study offers IT-decision makers:

- Transparency on the strengths and weaknesses of relevant providers and software vendors
- A differentiated positioning of providers by segments
- Focus on regional markets

ISG studies serve as the basis for important decision-making in terms of positioning, key relationships and go-to-market considerations. ISG advisors and enterprise clients also use information from these reports to evaluate their existing vendor relationships and potential engagements.

Provider Classifications

The provider position reflects the suitability of IT providers and software vendors for a defined market segment (quadrant). Without further additions, the position always applies to all company sizes classes and industries. In case the IT service requirements from enterprise customers differ and the spectrum of IT providers operating in the local market is sufficiently wide, a further differentiation of the IT providers by performance is made according to the target group for products and services. In doing so, ISG either considers the industry requirements or the number of employees, as well as the corporate structures of customers and positions IT providers according to their focus area. As a result, ISG differentiates them, if necessary, into two client target groups that are defined as follows:

- Midmarket: Companies with 100 to 4,999 employees or revenues between \$20 million and \$999 million with central headquarters in the respective country, usually privately owned.
- Large Accounts: Multinational companies with 5,000 or more employees or revenue above US\$1 billion, with activities worldwide and globally distributed decision-making structures.

The ISG Provider Lens™ quadrants are created using an evaluation matrix containing four segments (Leader, Product Challenger, Market Challenger and Contender), and the providers are positioned accordingly. Each ISG Provider Lens quadrant may include a service provider(s) which ISG believes has strong potential to move into the Leader quadrant. This type of provider can be classified as a Rising Star.

Number of providers in each quadrant: ISG rates and positions the most relevant providers according to the scope of the report for each quadrant and limits the maximum of providers per quadrant to 25 (exceptions are possible).

Introduction



Provider Classifications: Quadrant Key

Product Challengers offer a product and service portfolio that reflect excellent service and technology stacks. These providers and vendors deliver an unmatched broad and deep range of capabilities. They show evidence of investing to enhance their market presence and competitive strengths.

Leaders have a comprehensive product and service offering, a strong market presence and established competitive position. The product portfolios and competitive strategies of Leaders are strongly positioned to win business in the markets covered by the study. The Leaders also represent innovative strength and competitive stability.

Contenders offer services and products meeting the evaluation criteria that qualifies them to be included in the IPL quadrant. These evidence of rapidly investing in products/ services and a follow sensible market approach with a goal of becoming a Product or Market Challenger within 12 to 18 months.

Market Challengers have a strong presence in the market and offer a significant edge over other vendors and providers based on competitive strength. Often, Market Challengers are the established and well-known vendors in the regions or vertical markets covered in the study.

* Rising Stars have promising portfolios or the market experience to become a Leader, including the required roadmap and adequate focus on key market trends and customer requirements. Rising Stars also have excellent management and understanding of the local market in the studied region. These vendors and service providers give evidence of significant progress toward their goals in the last 12 months. ISG expects Rising Stars to reach the Leader quadrant within the next 12 to 24 months if they continue their delivery of above-average market impact and strength of innovation.

Not in means the service provider or vendor was not included in this reasons for this designation: company; the company does or solution as defined for each quadrant of a study; or the company for the study quadrant. Omission from the quadrant does not imply does not offer or plan to offer this service or solution.



Mainframe as a Service (MFaaS)

Mainframe as a Service (MFaaS)

Who Should Read This Section

This report is relevant to enterprises in the U.S. for evaluating providers offering MFaaS. In this quadrant report, ISG assesses the current market positioning of providers of MFaaS in the U.S., based on the depth of the

service offering and market presence.

Enterprises in the U.S. are increasingly focused on reducing their budget for maintaining aging mainframe infrastructure for running business applications, and are increasingly opting for the MFaaS model for core business processes. The key benefit of utilizing MFaaS is that the provider takes complete responsibility for maintaining and upgrading to an advanced IT infrastructure, which, in turn, delivers cost benefits and risk avoidance for a CIO.

Mainframe service providers considered here deliver the necessary IT infrastructure and support services. The clients only pay for the consumption of the services along with any of their own requirements related to coding (such as Java or COBOL) to run their batch processes.

Enterprises that use MFaaS offerings are focused on reducing operational costs, achieving a quick turnaround and improving customer satisfaction.

Service providers are expected to offer the maintenance services required to keep workloads running and are expected to meet performance metrics across the modernization journey.



CIOs should read this report to understand the strengths and weaknesses of providers, including the way they employ the latest technologies to deliver reliable offerings.



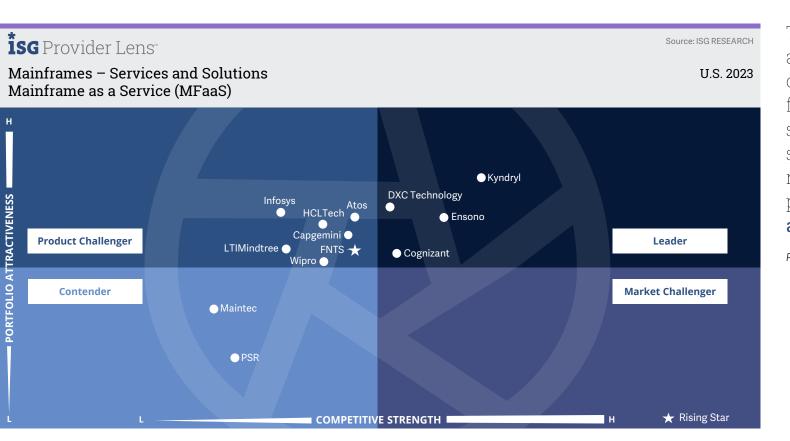
Procurement and Sourcing Specialists

should read this report to understand their outsourcing deals and develop a better understanding of the consulting and transformation landscape for mainframes.



CTOs should read this report to understand the mainframe modernization capabilities of providers to ensure suitable technology integration into products, services and business administration.





This quadrant assesses the **providers** of infrastructure, facilities, hardware, software and managed services related to mainframe, in the payper-use, **mainframe-as-a-service** model.

Pedro L Bicudo Maschio

Mainframe as a Service (MFaaS)

Definition

This quadrant assesses infrastructure service providers that offer shared IBM mainframes under a pay-per-use contract model.

The MFaaS services scope must include facilities, hardware, connectivity, mainframe network management, operating system and subsystems, licensing and tools. It must also offer all maintenance services that are required to keep workloads running to meet the expected performance metrics established upfront.

Typically, MFaaS is offered on the provider's data centers, but colocation partners are also considered as long as the MFaaS offers cloud-like experience; clients should not have to check and audit the underneath infrastructure. Thus, high availability and disaster recovery are included in the default scope.

For a cloud-like experience, the service provider offers clients a self-service portal with rich service catalogs covering approval workflows, security, compliance and automated service provisioning, enabling them to increase and decrease utilization.

Service providers typically offer application migration services to onboard clients. The migration can include application modernization and operating system upgrades to run clients' workloads on a shared mainframe environment.

Eligibility Criteria

- The service provider should offer robust and secure data centers that can deliver high performance and availability as expected from mainframes.
- Services include job scheduling automation, performance optimization, CICS, batch, backup, restore, system upgrades, security patches and other typical mainframe operations.
- Provider must demonstrate proven disaster recovery effectiveness for its MFaaS infrastructure.
- Hosting facilities offer low-latency connections to clients' locations and the public

- cloud such as AWS Direct Connect, Azure Route, and GCP Direct Connect. Carrier-neutral data centers are preferred.
- 5. The provider must demonstrate the **financial capacity** to invest in and grow its mainframe operations.
- It should have a hiring and training program to ensure skills availability in the future.
- 7. It must ensure high performance and security as per **service-level agreements** and corresponding contractual penalties.
- Platforms can include IBM Z an IBM Power Systems (AS/400 and iSeries).



Mainframe as a Service (MFaaS)

Observations

The mainframe-as-a-service market has experienced surprising growth in the past year. Service providers have reported two-digit growth. The market has also seen an increase in companies offering MFaaS. All providers report that they are receiving more requests for information (RFIs) and requests for proposals (RFPs), projecting more growth for 2023.

Most deals involve mainframe clients that need to decommission their facilities to accelerate toward their ESG targets, including reducing their carbon footprint. MFaaS is a part of clients' cloud strategies, enabling them to reduce IT investments and to pay per use of mainframe capacity.

The providers in this quadrant offer MFaaS in their data centers or in colocation facilities (partners). For the incumbents of mainframe services, offering MFaaS on top of partners' facilities has become essential to retaining mainframe services clients.

From the 56 companies assessed for this study, 13 have qualified for this quadrant with four being Leaders and one a Rising Star.

cognizant

Cognizant has longstanding experience and a large footprint in the mainframe services space. It supports large accounts in the banking, financial services and insurance (BFSI) sector by managing their core systems. Cognizant helps clients optimize their operations with improvements in performance and application management.

TECHNOLOGY

DXC Technology was a pioneer in mainframe outsourcing. It operates from remote centers spread over the globe that provide 24/7 service and support. By managing 23 data centers in the U.S., it offers clients the most options for mainframe location and connectivity.

Ensono

Ensono is well recognized for its services in this market and was one of the first companies to offer MFaaS. It modernizes clients' technologies prior to migrating them into the MFaaS model, enabling MIPS reduction from the outset. It has high client retention and a strong partnership with IBM.

Kyndryl

Kyndryl has the largest MIPS footprint, which gives it superior scale of operations and capacity to handle any client need. Its MFaaS offering includes IBM Z and IBM i platforms and can handle varying client demands for computing. It runs large data centers and provides support with experts.

FNTS

FNTS is a Rising Star for its capacity to accommodate new clients with strict security and compliance needs. It does not have the same scale of operations as the Leaders, but it compensates with deep knowledge, agility and customer support abilities, which enables it to grow faster than its competitors.



"DXC Technology has a flexible MFaaS model, enabling clients to operate in many countries seamlessly."

Pedro L Bicudo Maschic

DCX Technology

Overview

DXC Technology is headquartered in Virginia, U.S., and operates in 70 countries. It has more than 130,000 employees across 130 global offices. In FY22, the company generated \$16.3 billion in revenue, of which 29 percent was contributed by the U.S. The company offers MFaaS on dedicated equipment, DXC or client-owned assets, and operates 23 data centers in the U.S., It supports IBM workloads running the z/OS, z/VM, z/VSE, zTPF or zLinux operating systems.

Strengths

Differentiated delivery model:

DXC Technology offers many data center facilities in the U.S, close to clients, but the centers are remotely managed from delivery centers located in low-cost countries. Its operating model maximizes client value, offering resiliency, security, compliance and data sovereignty.

Value-added services: DXC offers legacy application modernization on the mainframe and migration to AWS, Google and Azure cloud partners. Clients can build hybrid infrastructures, modernize COBOL, and use APIs and containers. Other services include automation, software updates, disaster recovery services (subscription or dedicated) and vendor license management.

Quality outcomes: DXC Technology builds solid client relationships and is flexible to accommodate specific requirements, enabling MFaaS on clients' sites or its own shared data centers. Running on a shared infrastructure allows clients to optimize their utilization by eliminating overhead and reserved capacity they would have spent on dedicated hardware. With this, the company experiences high customer satisfaction and is capable of retaining clients over time.

Caution

DXC Technology offers many deal types with different terms and conditions.

The company's pay-as-you-go models could benefit by excluding penalties for early exit or charges for minimum service consumption.

However, clients expecting to stay on mainframes for long should assess other alternatives offered by the company.



Appendix



Methodology & Team

The ISG Provider Lens™ 2023 Mainframes – Services and Solutions analyzes the relevant software vendors/service providers in the Americas, based on a multi-phased research and analysis process, and positions these providers based on the ISG Research methodology.

Lead Author:

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Shona Merin Jacob

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The research and analysis presented in this report includes research from the ISG Provider Lens program, ongoing ISG Research programs, interviews with ISG advisors, briefings with services providers and analysis of publicly available market information from multiple sources. The data collected for this report represents information that ISG believes to be current as of December 2022, for providers who actively participated as well as for providers who did not. ISG recognizes that many mergers and acquisitions have taken place since that time, but those changes are not reflected in this report.

All revenue references are in U.S. dollars (\$US) unless noted.

The study was divided into the following steps:

- 1. Definition of Mainframes -Services and Solutions market
- 2. Use of questionnaire-based surveys of service providers/ vendor across all trend topics
- 3 Interactive discussions with service providers/vendors on capabilities & use cases
- 4. Leverage ISG's internal databases & advisor knowledge & experience (wherever applicable)
- 5. Use of Star of Excellence CX-Data

- 6. Detailed analysis & evaluation of services & service documentation based on the facts & figures received from providers & other sources.
- 7. Use of the following key evaluation criteria:
 - * Strategy & vision
 - * Tech Innovation
 - * Brand awareness and presence in the market
 - * Sales and partner landscape
 - * Breadth and depth of portfolio of services offered
 - * CX and Recommendation



Author & Editor Biographies



Lead Author

Pedro L Bicudo Maschio Lead Author

Distinguished analyst and author, Pedro Maschio brings extensive experience in the research of the SEMEA (Southern Europe Middle East and Africa) and Latin America service markets. With more than 30 years of experience in sourcing, he has developed vendor assessments plus contract restructuring, services scope and IT benchmarking programs for diverse vertical markets in the Americas and APAC.

Before joining ISG, Pedro was a partner of TGT Consult and managing vice president at Gartner Inc., responsible for the consulting business in APAC and Latin America.



Lead Author

Manoj M Research Analyst

Manoj is a research analyst at ISG and supports ISG Provider Lens™ studies on Mainframes Services & Solutions, Cloud Native Services & Solutions and Public Cloud Data Center Solution and Services. He also supports the lead analysts of multiple regions in the research process. Prior to this role, he supported the ROI process in the sales intelligence platform and was an individual contributor in

handling research requirements for advanced technologies in different sectors. He has considerable expertise in predicting the automation impact by considering certain parameters such as productivity, efficiency and time reduction. During his tenure, he has supported research authors and authored Enterprise Context and Global Summary reports with market trends and insights.

Author & Editor Biographies



IPL Product Owner

Jan Erik Aase Partner and Global Head - ISG Provider Lens™

Mr. Aase brings extensive experience in the implementation and research of service integration and management of both IT and business processes. With over 35 years of experience, he is highly skilled at analyzing vendor governance trends and methodologies, identifying inefficiencies in current processes, and advising the industry. Jan Erik has experience on all four sides of the sourcing and vendor governance lifecycle - as a client, an industry analyst, a service provider and an advisor.

Now as a research director, principal analyst and global head of ISG Provider Lens™, he is very well positioned to assess and report on the state of the industry and make recommendations for both enterprises and service provider clients.

About Our Company & Research

isg Provider Lens™

The ISG Provider Lens™ Quadrant research series is the only service provider evaluation of its kind to combine empirical, data-driven research and market analysis with the real-world experience and observations of ISG's global advisory team. Enterprises will find a wealth of detailed data and market analysis to help guide their selection of appropriate sourcing partners, while ISG advisors use the reports to validate their own market knowledge and make recommendations to ISG's enterprise clients. The research currently covers providers offering their services across multiple geographies globally.

For more information about ISG Provider Lens research, please visit this webpage.

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FEBRUARY, 2023

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