

metaware.

the complete IT modernization solution

IBM zOS MIGRATION

ENVIRONMENTS

- IBM z/OS
- IBM z/VSE
- IBM z/VM

SOLUTION OVERVIEW

- Comprehensive ROI analysis including Asset Analysis, Parametric project and infrastructure sizing Models
- True 100% Automated Conversion Technology
- Reliable, highly-available, scalable, Standards-based Execution Environment

BENEFITS

- Total Cost of Ownership reduced with more cost-effective standards-based hardware and software
- Mission-critical application potential leveraged, delivering highly-changeable, -flexible and -efficient architectures
- The ability to take advantage of cost-effective technologies
- Improvements in development productivity
- A smooth transition towards modern architectures by preserving applications logic, behavior and production best practices
- Mainframe Modernization at the highest ROI and Zero-Risk

Leverage business-critical IBM Mainframes onto an Open Standards-Based and Scalable Architecture to Reduce TCO

The current economic climate requires a strategic approach to cutting IT costs. Mainframe is a great opportunity for cost saving.

IBM Mainframes are all-powerful, secure, under control... and costly to operate. Modernizing them could be an expensive and risky proposition due to the vast number of systems they manage. The older the Mainframe applications, the more expensive and complex it is to maintain. And of course it is true that older platforms such as VM and VSE lines raise operational risks due to loss of knowledge, as well as the ongoing issue of unsupported technologies.

Previous IT Modernization initiatives have led to rationalization and standardization replacement by commercial packages and rewrites. Although these projects eased the job of IT, the business end-users demand that their business-critical applications, processes, objects and data be extended and enhanced quickly, in an agile manner and at reduced costs. The only logical conclusion to satisfy everyone's needs is a replatforming of The Mainframe.

THE REPLATFORMING AND OFFLOADING CHALLENGES

Migrating or offloading an IBM Mainframe is a tricky balance to maintain.

The return-on-investment (ROI) of a mainframe migration project should guarantee the expected reduction in operating expenses is achieved. The need to demonstrate the operations migration are optimized from a financial standpoint demands detailed examinations of the opportunities for cost reduction, the productivity of the migration process, as well as the experience to ensure these vulnerable applications and customizations will be protected.

To compound the situation, the target environment must:

- > Provide native support for key mainframe languages, transaction and batch services
- > Deliver mainframe-class reliability, security, availability and SLAs,
- > Enable openness and scalability

Achieving these precise and often competitive objectives cannot result from a hazardous approach and "good enough" toolset. True mainframe modernization, from asset analysis to go-live, including mission-critical application conversion, requires the elegance of 100% automation.

Refine® for z/replatforming

The most comprehensive and powerful modernization platform on the market today, Refine®™ from Metaware provides a holistic approach of mainframe modernization. It is the first modernization technology to utilize true 100% automation to achieve elegant migration:

- > Comprehensive asset analysis and mainframe migration Return on Investment
- > Automated Replatforming with Source Code, Data bases and OS Conversions
- > Reliable, Highly Available, Scalable, Standards-based Target Execution Environment

THE KEY ASPECTS OF MAINFRAME REPLATFORMING

- > Significant reductions in costs and risks while allowing for gradual transition within a large mainframe environment
- > Faster ROI achieved for conversion productivity and accuracy while intelligently managing converted source code, functionality, performance, and project duration
- > Screen maps and application behaviors retention
- > Limitation of maintenance freezes
- > Implementation of standards-based target architecture and runtime environment
- > Comprehensive change management to fully leverage valuable resources, knowledge and skills in the new environment

REFINE® EXPERT PLANNER

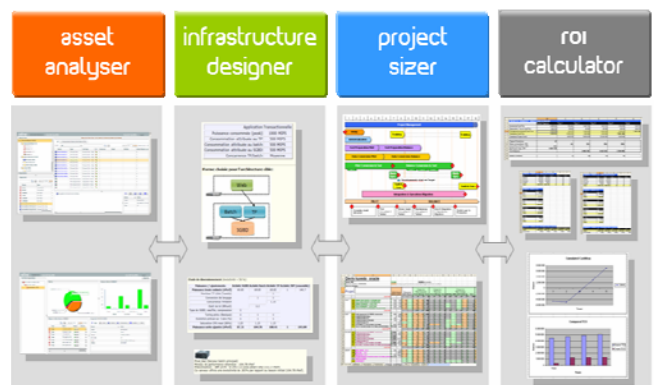
MIPS consumption keeps increasing driven by transactions and business growth as well as applications that have been extended beyond their originally optimized designs. Each installation offers a large opportunity for cost savings. To guarantee the expected reduction in operating expenses is achieved, detailed analysis are required; existing technical environment and its specifics, the productivity and potential complexities of the migration process, sizing of the projected infrastructure.

Refine® Expert Planner is an Expert System-based application allowing for decision making based on TCO comparison and Return on Investment analysis. It combines Refine® powerful capabilities for asset analysis and a parametric model inherited from more than 180 mainframe modernization projects.

Refine® Expert Planner delivers:

- > The complete discovery and assessment of the technical environment,
- > Project scope and subset selection identifying the level of complexity associated with the environment specifics,
- > Project Requirements and Parametric Estimating
- > Target Architecture Definition and Sizing

Refine® Expert Planner complete set of dashboards and reports provides a comprehensive business case, including the ROI analysis, detailed TCO comparison between the existing and the projected environments, quick win scope, project estimates and customized target IT infrastructure sizing, further improving the productivity and ROI.



Metaware, the market leader in mainframe modernization, have capitalized on their background of leading more than 180 projects, migrating over 400 million lines of code and investing 140 man-years into R&D to deliver a packaged solution specific for IBM System z®.

REFINE® WORKBENCH

Achieving both 100% automation and accuracy as measured by the Defect Injection Rate within the migration engine are of the highest priority for large and complex mainframe environments, because these contributions directly impact productivity, completeness and quality.

Refine® for z/replatforming leverages powerful language and advanced transformation-rule capabilities to deliver both of these aspects. This quality ensures 1:1 functionality and behavior of the replatformed applications with increased quality, which avoids those risks and costs associated with manual corrections, software regressions, and end-user changes.

Refine® workbench delivers a clean compile rate of 100% with the conversions of System z programs, JCL, data files, and scripts to be ported onto Open systems.

With its packaged language gateways, Refine® Workbench automatically transforms:

- > Programs: PL/I or 4GLs such as Natural, Mantis, APS, VAGEN
- > Databases: DB2, IMS DB or CA-IDMS
- > Storage access files: SAM, VSAM-based files
- > Transaction servers: CICS or IMS DC
- > Batch processes: JCL, REXX and CLIST
- > Screens: 3270 and BMS

Refine® Workbench significantly increases productivity by reducing the time it takes to get a clean compile, avoids error-prone manual rewriting dramatically reducing labor-intensive tasks associated with testing and debugging, and delivers source code conversions at faster ROI and zero-risk.

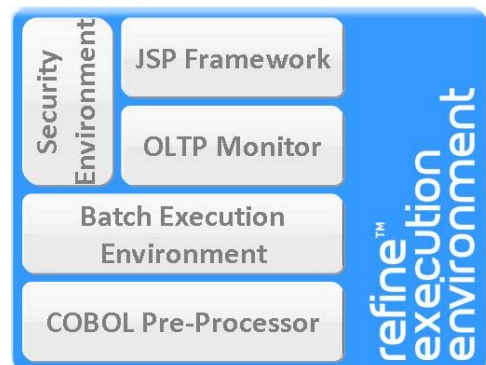
REFINE® EXECUTION ENVIRONMENT

One of the major benefits of a mainframe migration is the reduction of TCO associated with the price/performance ratio brought by mainstream-price and commoditized technologies.

Refine® Runtime Environment delivers enterprise-class scalability and availability on industry-standard computing architecture components that are more flexible and cost-effective than the mainframe. Its best-in-class execution environment is suited to run the mainframe programs on a distributed platform, provides a solid foundation for integration, and enables core enterprise applications to be scaled well beyond the mainframe, using two options:

- > A high-performance, scalable OLTP architecture associated with Transaction Monitor personalities to maintain the behavior of CICS and IMS transactions.
- > An implementation of Micro Focus Server™ built around a transaction technology framework and Job Execution engine that supports CICS transactions.

Refine® Execution Environment is designed to ensure the best price/performance ratio, bring 99.999% uptime, peak load processing capabilities both for batch and transaction processing. Refine® Execution Environment also provides a flexible and scalable foundation to enhance your mainframe assets with native web based user interface, modern integrated development environment (IDE) and Service-Oriented Architecture (SOA). As a result, most customers see an average 70-80 percent cost reduction for annual direct hardware and software costs after migration.



BENEFITS

With Refine® for z/replatforming, organizations can expect to achieve:

- > Reduced TCO by as much as 80%, as mission-critical business assets are released from costly IBM mainframe technologies
- > Highest ROI for IBM Mainframe Modernization Project
- > Risk-free platform migration delivered on time and within budget
- > Increased business value from decades of IT investments in more viable, flexible and agile environments
- > Smooth and Pragmatic transition to modern architecture and development paradigms
- > Eliminated vendor locked-in, and risks such as burning platforms and sourcing rare skills

Refine® for z/Replatforming is the most comprehensive, cost-effective packaged solution which manages the changeover from an IBM mainframe available today.

Refine® Expert Planner provides a holistic view and assessment of the mainframe environment. **Refine® Workbench** delivers 100% true intelligent automation and accuracy while converting source code, databases, batch and transaction services, and user interface.

Refine® Execution Environment provides the foundation to retain application behaviors, security and other RAS aspects on a mainstream price computing architecture, while achieving higher levels of transactional and batch performance.

Its comprehensiveness, productivity, and ease of use accelerate the Return of Investment (ROI) of offloading or replatforming projects by reducing costs and risks.

With its background of leading more than 180 projects, migrating over 400 million lines of code and investing 140 man-years into R&D, Metaware provides the most proven, simple, and risk free package to exit the mainframe.

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