

EBOOK

MAINFRAME RESOURCE
INTELLIGENCE (MRI)

UNCOVER HIDDEN
OPPORTUNITIES
TO GET THE MOST
OUT OF YOUR
MAINFRAME

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Do You Know What Your Mainframe is Trying to Tell You?

As the mainframe remains central to modern enterprise IT operations, ongoing changes within the enterprise can pose challenges for operations teams that depend on and utilize the mainframe as a fundamental component of their IT infrastructure.

The fact is, it's very difficult to find the time, money and resources to properly evaluate your mainframe, and nearly impossible distinguish the signals from the noise. Simply put, there's just too much data to look at, and too few hours to sift through and analyze it all. You need a way to identify and focus on key data for *your* mainframe, for *your* key business goals and objectives.

IT teams know that software solutions can help them meet the need to understand their unique mainframe environment. The problem: analyzing data on-prem is expensive, but analyzing off platform requires moving data off-prem—and that requires a great deal of trust.



An Industry-First Tool for Truly Understanding Your Mainframe Environment

Introducing Broadcom's Mainframe Resource Intelligence (MRI), a secure managed service analysis tool that helps you prioritize and comprehend key data from your mainframe, quickly, easily, accurately and securely.

MRI helps you understand what your mainframe is trying to tell you, using data from your mainframe to identify potential issues, opportunities and risks in your environment. It delivers secure, easy-to-understand reports that can be automated to provide the transparency required, with minimal impact on your mainframe operations team.

MRI's unique and industry-leading assessments enable direct access to subject matter expertise in the areas that matter most to you. Whether it's a Capacity Optimization Assessment, or a Security Assessment, our experts are at-the-ready to help alleviate common gaps presented due to expertise departure in the form of retirements, which may leave minimal time for new talent onboarding.

How it Works MRI is simple to use



WE SCAN, collecting only the relevant data required to perform an analysis.



WE ASSESS, utilizing sophisticated analytics and crunching the data, often in only seconds.



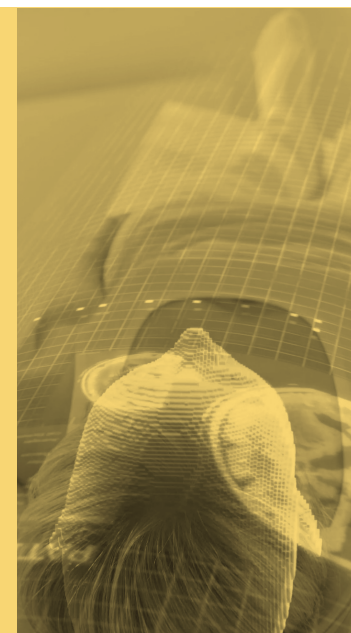
WE REPORT, transforming data into actionable results...providing concise recommendations in just minutes.

THE END-RESULT: a tool that helps you make data-driven decisions to optimize operational efficiencies, reduce risk & lower your total cost of operation (TCO).

A Diagnostic Tool Inspired by Medicine

In the healthcare industry, an MRI scan reveals what's going on within a patient's body. This helps doctors identify the cause of issues and the best options for putting a patient on the path to recovery.

MRI allows you to scan and assess your mainframe environment in a similar way, providing actionable findings and recommendations, all in a secure environment built to protect your privacy and keep you firmly in control of your data.



Benefits Include Optimized Operational Efficiencies, Reduced Risk, and Lowered Costs



Hundreds of organizations have used MRI to automate reporting, **saving up to 63%** over manual efforts. Along with saving time and costs, they are ultimately driving greater efficiency, thanks to its customized, data-driven insights and actionable recommendations—and freeing up critical resources to focus on keeping the lights on.

Service Provider-Related

- 59% reduction in costs to service their existing customers with reports and analysis
- 93% reduction in time and costs to prospect for new customers

Direct Customer-Related

- \$250k saved from 1 hour of work with MRI's Capacity Metrics Report
- Greater than 5x return on investment opportunity to optimize capacity through dynamic management
- Identified opportunity to reduce total capacity spend by 23.1% annually

We Take Security Seriously

MRI was designed from the ground up with your data security in mind. We built it to international security and data privacy standards, adopting the EU's GDPR Security by Design and Security by Default principles. We also adhere to the enhanced NIST DISA security standards as required by FedRAMP.

When you use MRI, you can be assured that:

- All Data is Encrypted at All Times, in flight or at rest. All backups are also encrypted.
- MRI Data Files Contain No PII Data. We publish exactly which data is gathered and used to generate the analysis for each assessment.
- You Control Who Can Access Your Data, and you can delete it at any time.

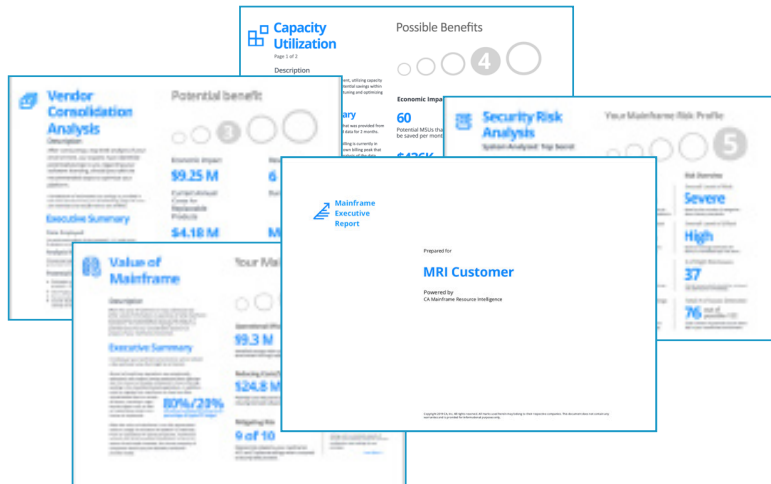
No one—not even MRI team members—can access your data unless you explicitly grant them access.



Use Cases

There are many ways in which organizations are making data-driven decisions using MRI to prioritize investments, optimize operational efficiencies, reduce risk, and lower TCO. Here are some real-world examples.

1. UNDERSTANDING AND PRIORITIZING MAINFRAME INVESTMENTS



SITUATION

A global insurance company executive wanted to understand their mainframe needs better as he made key investment decisions.

ASSESSMENT

MRI Executive Report.

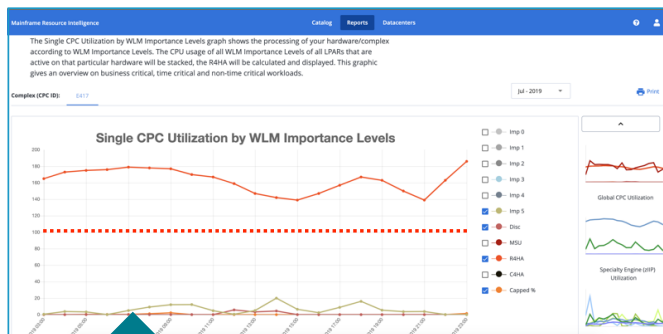
INSIGHT

Using a report designed by and for executives, the exec made data-driven decisions for his mainframe based on ROI.

IMPACT

Automation of reporting around highest value opportunities to drive efficiency, cost reduction and risk mitigation projects with ROI impact.

2. IDENTIFYING CAPACITY ISSUES



Actual screenshot of the uncapped critical workload ID'd by MRI

SITUATION

National Financial Services & Insurance Company needed a faster way for analysts to review key capacity metrics over time.

ASSESSMENT

MRI Capacity Metric Report.

INSIGHT

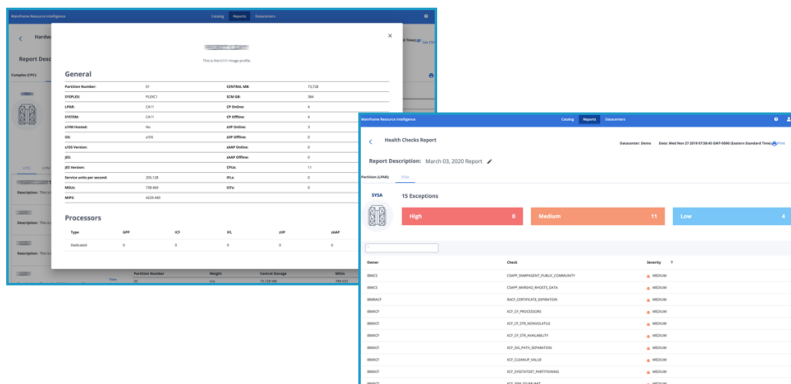
Within 10 minutes of running the report, an uncapped critical workload was discovered.

IMPACT

1 hour's work reduced costs by hundreds of thousands of dollars.

Use Cases *(continued)*

3. ACHIEVING WHOLISTIC VIEW OF MAINFRAME ENVIRONMENT



SITUATION

Large Government Agency
required a more detailed view
of their MF environment.

ASSESSMENT

MRI Software, Hardware, and Health Assessments.

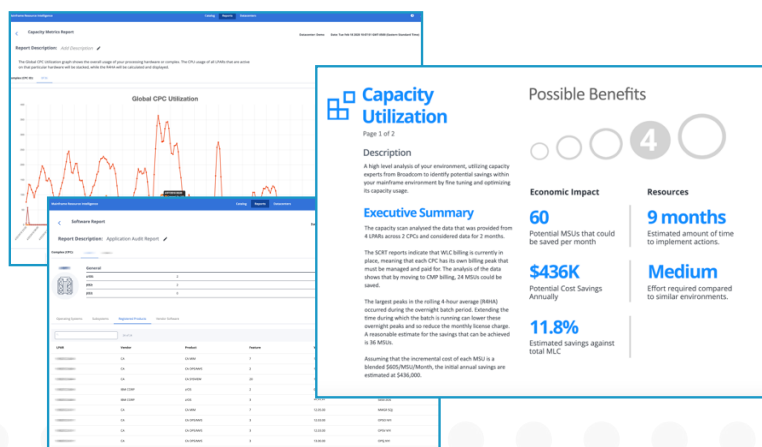
INSIGHT

MF Operations team generated detailed reports in <1 hour.

IMPACT

From days/weeks to fully automated—more detail than ever before in much less time.

4. UNDERSTANDING ACQUIRED COMPANY'S MAINFRAME ENVIRONMENT



SITUATION

Rapidly expanding Regional Bank had to quickly understand the MF environments of new acquisitions.

ASSESSMENT

MRI Software, Hardware,
Health, and Capacity
Assessments.

INSIGHT

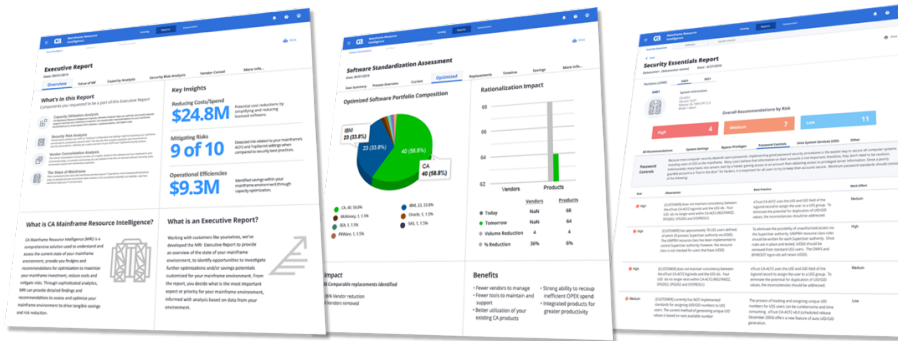
Critical data gathered without burdening the acquired company's MF team.

IMPACT

Requisite insights quickly provided to facilitate IT systems integration planning with complete transparency.

Use Cases *(continued)*

5. AUTOMATING MAINFRAME OPERATIONS REPORT CREATION



SITUATION

A large Insurance Company sought to automate the creation of mainframe reports required for management & optimization.

ASSESSMENT

Complete MRI suite of assessments.

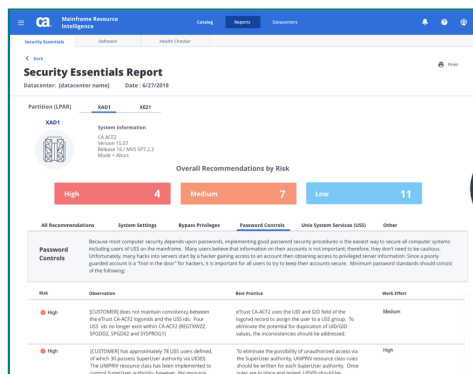
INSIGHT

Automated Assessments streamlined periodic, annual & semi-annual reporting for planning purposes.

IMPACT

MRI replaced or supplemented existing reports saving significant time & resources.

6. AUTOMATING SCANS OF KEY SECURITY PACKAGE SETTINGS



SITUATION

Financial Institution sought to mitigate insider threats and external hack attempts..

ASSESSMENT

MRI Security Essentials.

INSIGHT

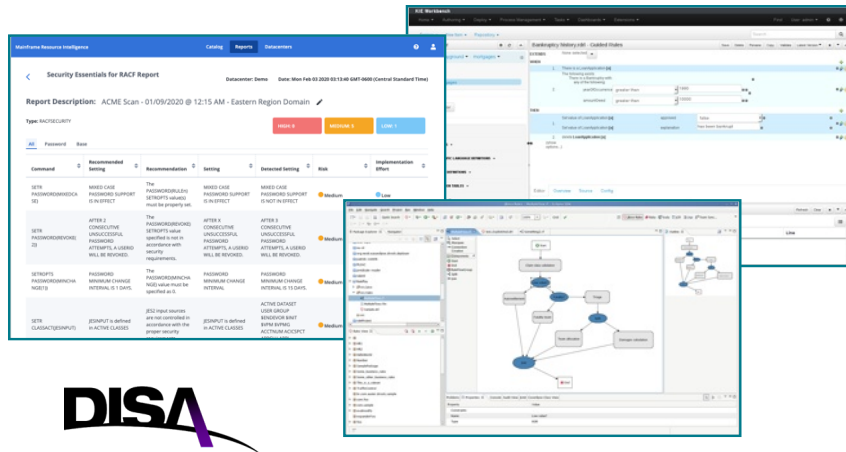
Automating scans relieved security admins from a monotonous task prone to human error.

IMPACT

94% reduction in task completion time enabled security admins to focus on other key initiatives and achieve risk reduction due to low error potential.

Use Cases *(continued)*

7. ENHANCING COMPLIANCE WITH SECURITY BEST PRACTICES



SITUATION

A Credit Reporting Agency wanted additional ways to check multiple sites for adherence to security best practices.

ASSESSMENT

MRI Security Essentials.

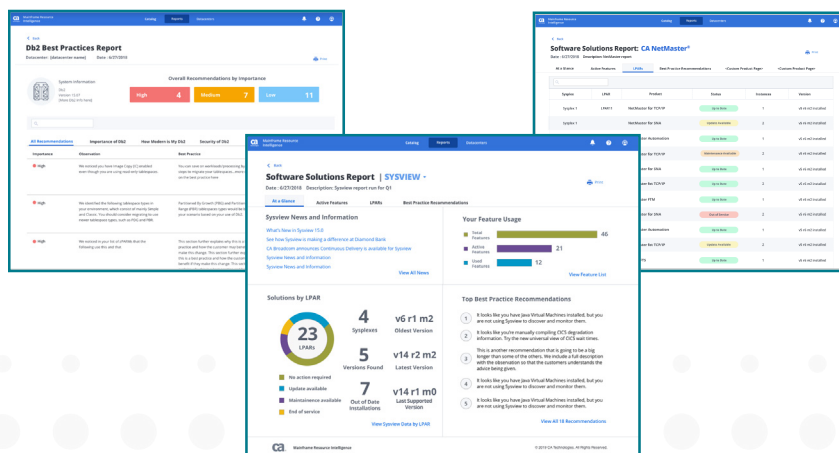
INSIGHT

Ability to automate gathering of data and analyses, enabled hundreds of checks with minimal effort and cost.

IMPACT

Replaced solution costing 10x more while providing results faster and with less effort.

8. MAXIMIZING THE RETURN OF YOUR SOFTWARE INVESTMENTS



SITUATION

A large national bank wanted to better manage, maintain, and optimize software deployed in their mainframe.

ASSESSMENT

MRI Software Solutions Report.

INSIGHT

Config and installation teams often struggle to keep up with the latest—not to mention users wanting the latest features.

IMPACT

>90% reduction in time to identify back-leveled versions, catch misconfigurations, and optimize deployed apps.

The figure displays three screenshots of the AWS CloudHealth dashboard, illustrating various reports and metrics.

Capacity Metrics Report: This report shows the utilization of a single VM by VMs. It includes a line graph titled "Service Class Utilization by LPAR" with a Y-axis ranging from 0 to 100. The graph shows utilization over time, with a peak around 100% in late 2018. Below the graph, there are three tables showing data for different periods:

Max VMs	Min VMs	Avg VMs
100	0	50
100	0	50
100	0	50

Security Essentials for AC27 Report: This report provides a daily AC27 scan. It includes a table showing the results of the scan, with columns for "Recommendation", "Risk", "Implementation Effort", and "Command".

Recommendation	Risk	Implementation Effort	Command
Ensure that all instances are patched	Low	Low	
Ensure that all instances are patched	Low	Low	

Capacity Optimization Report: This report provides an analysis of capacity optimization opportunities in the mainframe environment. It includes a table showing the results of the analysis, with columns for "Recommendation", "Risk", "Implementation Effort", and "Command".

Recommendation	Risk	Implementation Effort	Command
Ensure that all instances are patched	Low	Low	
Ensure that all instances are patched	Low	Low	

A global service provider wanted to provide its customers self-service reports and analyses.

MRI Capacity Metrics Report,
Capacity Optimization,
Security Essentials
assessments.

Allowed customers to generate reports at their convenience, significantly reduced provider costs through MRI automation.

99% reduction in time to generate reports, overall lowered costs by 53% for in-depth analysis MRI provided.

The screenshot displays the McAfee ePO console interface with several reports open. The primary report, 'Software Report' for 'PLEXCL.CAS1', shows details for the 'IO Config' section, including 'IO Configuration Database' and 'Description: IBM Workman (MSR)'. A secondary report, 'Vendor Software', is overlaid, showing a list of installed applications. The 'Vendor Software' report includes columns for 'CA Technologies', 'Version', and 'Count'. The list includes 'IBM Workman (MSR)' and 'IBM Workman (MSR)' with counts of 1000 and 1000 respectively. Other reports visible in the background include 'Health Check Report', 'Security - HIGH-DYNAMIC', and 'Baseline Report'.

CA Technologies	Version	Count
IBM Workman (MSR)	1000	1000
IBM Workman (MSR)	1000	1000

A large service provider was exploring ways to improve the experience of potential customers by enhancing its quote process.

MRI Hardware, Software,
Health, and Capacity
Optimization Assessments.

MRI enabled the provider to generate more accurate and competitive quotes, in less time and with lowered costs.

93% reduction in costs to generate quote, in 1/8th the time previously required to analyze the most complex mainframe environments.

The MRI Catalog of Assessments

MRI features a wide range of on-demand and expert-guided assessments, with a continuous customer-driven pipeline, resulting in ongoing enhancements. Here are some of the assessments available today in the catalog:

Expert Assessments: *The following assessments feature expert-analysis from a Broadcom SME, guiding you in the results and their implications.*

Capacity Optimization Assessment: A deep dive analysis of your mainframe capacity use, focused on optimization and cost reduction performed by analysts with decades of experience analyzing hundreds of mainframe environments.

Software Standardization Assessment: Identify opportunities to reduce software licensing costs by reducing and simplifying your software portfolio.

On-Demand Assessments: *The following automated assessments are available on-demand, with a near-instantaneous turnaround time.*

Executive Report: An assessment designed by and for executives that provides a high-level summary of available MRI analyses, allowing executives to identify and prioritize areas of interest within their mainframe environment.

Software Assessment: Understand what and where software is deployed within your mainframe environment.

Hardware Assessment: Quickly understand what hardware assets are deployed within your mainframe environment.

Health Assessment: A single consolidated report for all of the health exceptions that currently exist within your mainframe environment.

Security Essentials Assessments: Compare key security package (AFC2, Top Secret, RACF) configuration and settings against industry best practices.

Capacity Metrics Reports: Track key capacity metrics over time to understand your mainframe's capacity use and identify future needs.

Software Solutions Report for NetMaster, SYSVIEW and OPS/MVS: Easily confirm that you remain current with your installed releases and ensure they are configured using industry best practices.

Db2 for z/OS Report: Explore your mainframe Db2 for z/OS environment to drive cost reduction, modernization and greater data protection.

YOU SPOKE; WE LISTENED

We built each MRI assessment based on what customers told us they needed to better understand their mainframe operations.

The Future of MRI

The MRI catalog of assessments continues to evolve and expand as we look for new ways to provide additional insights that you can use to guide you on your path to greater productivity and value for your mainframe environment.

Our vision is to provide MRI assessments that address the highest priorities of our customers. In order to do that, we listen and allow you to guide us as we decide what assessments we should invest in creating.

In fact, that's why we built each assessment that's in the catalog today. Our Software Solutions Report, for example, gives customers an unprecedented view into our solutions, highlighting back-leveled versions, what features were installed per instance, and even includes feature usage information. Additionally, each instance is analyzed against best practices, flagging opportunities to fine-tune, optimize and address possible misconfigurations for every instance of the product deployed in your mainframe environment.

We will leverage the data from your MRI assessments to provide unique insights into your mainframe environments that you've told us are priorities for you, helping define and analyze your mission critical business applications. The ultimate goal is to model the ideal state of your mainframe environment, and then help you take steps to move your mainframe closer to that idealized state.

Get Started on Your MRI Journey with Broadcom Today

Get started with your no-cost MRI test drive today

REQUEST NO COST ASSESTMENT

For a guided experience, contact your
Broadcom Mainframe account representative

Questions?

Broadcom is here to help.

[TALK TO A MAINFRAME EXPERT](#)



About Broadcom Mainframe Software

Broadcom Mainframe Software empowers customers to amplify the value of their mainframe investments. Our commitment to partnership is grounded in delivering to customers greater success with the platform. It starts with embracing open technologies in ways that unite the mainframe and hybrid cloud environments. Our leading DevOps, AIOps, Security, Data Management, and Core Infrastructure software solutions and innovative value programs go beyond code to unlock the platform's full potential.

For more information, please visit our website at: mainframe.broadcom.com

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