

# Reduce Cloud Migration Risk to Maximize Benefits

## Mitigate the Risks to Achieving Peak Performance and Efficiency

Every industry is in a cycle of accelerated business transformation driven by the continuous evolution of technology. More organizations than ever are migrating their on-premise applications to Amazon Web Services, Microsoft Azure and transitioning to SaaS applications. The adoption of SaaS and cloud technologies driven by business units, DevOps, and application users has increased the pressure on IT organizations to determine the effectiveness of their critical business application performance and resources.

The identification and performance validation of networks and applications moving to the cloud can improve critical business requirements:

- Cost Reduction or Optimization
- Increased Network and Application Performance
- Business Agility to address ever changing needs

Inability to address these critical business needs can lead to a decrease in competitive advantage, innovation agility, as well as asset and personnel effectiveness.

## Key Service Benefits

- Schedule delay mitigation due to improved planning
- Improved network and application performance awareness
- Post-migration application performance assurance

Validate current network performance and help predict post-migration performance with the Cloud Migration Assessment Service (CMAS) from Riverbed Professional Services.

Utilizing Industry leading network performance solutions, diagnostic and predictive analysis workflows, and established best practices using real world performance data from your existing data center, the benefits of the CMAS may include:

- Network and application identification and dependency maps to ensure accurate planning, design, and cost for your migration strategy
- Identification of network device availability and standards compliance to help ensure optimal utilization, performance, and cost for your migration strategy
- Pre-migration application performance tuning and optimization to identify and resolve high risk components to ensure optimal post-migration performance
- Pre-migration network and application performance baseline to ensure migration schedule acceleration and quantify cloud data charges

## Overview

Riverbed Professional Services leverages proven, repeatable methodologies to ensure consistent and positive outcomes. The CMAS is delivered in the following phases:

### Phase 1: Plan

Lay the foundation for a successful engagement by reviewing requirements, collecting information pertaining to the environment, and designing a solution to best serve data collection and analysis needs.

### Phase 2: Collect

Instrument the environment with the required Riverbed solutions and validate data collection for recommended visibility.

### Phase 3: Analyze

Analyze data from the deployed Riverbed solutions, extracting information and evaluate key findings in real-time based on engagement objectives.

### Phase 4: Report

Create and deliver the final report, detailing findings and recommendations to help achieve desired outcomes.

## Cloud Migration Assessment Services

To provide added flexibility when addressing unique customer requirements and desired business outcomes, four different components of the CMAS are available to choose from: Network Infrastructure, Application Dependency, Baseline Performance, and Predictive Analysis. The following table identifies the features of CMAS:

Phase	Feature	Network Infrastructure	Application Dependency	Baseline Performance	Predictive Analysis
Phase 1: Plan	Migration Assessment Planning	✓	✓	✓	✓
	Migration Assessment Design	✓	✓	✓	✓
Phase 2: Collect	Solution Instrumentation	✓	✓	✓	✓
	Data Collection	✓	✓	✓	✓
	Data Validation	✓	✓	✓	✓
Phase 3: Analyze	Network Inventory	✓			
	Network Diagrams	✓			
	Network Best Practices and OS Compliance Audit	✓			
	Network Security Compliance and Availability Audit	✓			
	Application Discovery		✓		
	Application Dependency Maps		✓		
	Baseline Application and Network Performance		✓	✓	✓
	Transaction Predictive Analysis				✓
Phase 4: Report	Network Infrastructure Report	✓			
	Application Dependency Report		✓		
	Baseline Performance Report		✓	✓	✓
	Risk Mitigation Recommendations				✓

The CMAS contains both on-site and off-site deployment and analysis and will have non-contiguous engagement activities. Factors that affect pricing include, but not limited to, the (i) type of data that will be collected, (ii) amount of data to be collected, (iii) selected components, (iv) number of key transactions that require predictive analysis, and (v) Travel & Expenses (T&E).

## Products

The following table identifies which Riverbed products are used for each component. Product usage is available if the necessary products (as determined by Riverbed) are not currently owned by the customer and available for use.

Component	Applicable Products
Network Infrastructure	<ul style="list-style-type: none"> <li>Riverbed NetIM</li> <li>Riverbed NetAuditor</li> </ul>
Application Dependency	<ul style="list-style-type: none"> <li>Riverbed NetProfiler</li> <li>Riverbed Flow Gateway</li> <li>Riverbed AppResponse</li> </ul>
Baseline Application and Network Performance	<ul style="list-style-type: none"> <li>Riverbed NetProfiler</li> <li>Riverbed Flow Gateway</li> <li>Riverbed AppResponse</li> <li>Riverbed Aternity Agents</li> </ul>
Predictive Analysis	<ul style="list-style-type: none"> <li>Riverbed Transaction Analyzer</li> </ul>

## Feature Definitions

Feature	Definition
Migration Assessment Planning	Review business and technical requirements and plan high-level activities required to accomplish the service.
Solution Instrumentation	Install associated Riverbed solutions and configure them to meet assessment requirements. Perform instrumentation review if solutions are pre-deployed.
Data Collection	Collect data specific to engagement objectives from the implemented Riverbed solutions.
Data Validation	Validate that required data for proper assessment analysis is being collected.
Network Inventory	Inventory detailing the following information: hardware (network devices, physical links, interfaces and ports, and end systems), protocols (routing protocols such as BGP, EIGRP, IGRP, IS-IS, OSPF, RIP, etc.), software (OS versions and OS types), and IP addressing (IPv4 addressing, public and private IPv4 IP address, prefixes).
Network Diagrams	Physical L3 and L2/L3 diagrams.
Network Best Practices and OS Compliance Audit	Configuration audit based on industry standard, best practices rules. Hardware and OS upgrade analysis is comprised of EoL/EoE reports and OS vulnerability analysis based on vendor security advisories maintained by Riverbed.
Network Security Compliance and Availability Audit	Security compliance audit using industry standard rules such as PCI and FISMA. Availability audit is defined as device and link availability analysis.
Application Discovery	Identification of applications from data collected during the engagement based on network traffic.
Application Dependency Maps	Logical application dependency maps created from network traffic showing all relevant tiers and traffic flows related to a given application.
Baseline Application and Network Performance	Measurement of application and network performance over the period of the engagement using the Riverbed solutions deployed. Performance data can be based on end-user experience, network throughput, server response time, or specific transaction measurements, depending on which tools are used.

Feature	Definition
Transaction Predictive Analysis	Thorough packet-based analysis of a specific transaction to analyze how the transaction will perform after changing network characteristics such as latency, bandwidth, and WAN optimization techniques to match the network characteristics of the destination.
Network Infrastructure Report	Document list of findings about the network infrastructure, audit results, network inventory and maps.
Application Dependency Maps	Deliverables in Visio, PDF, or CSV format detailing the dependencies identified for the defined applications.
Baseline Performance Report	Report over the course of the engagement showing the relevant performance metrics for each component.
Risk Mitigation Recommendations	Recommendations for each applicable transaction or application based on expert analysis and prior experience with similar protocols.

## Invoicing and Pricing

- For pricing information, please contact your Riverbed Professional Services sales representative or send your inquiry to [proserve@riverbed.com](mailto:proserve@riverbed.com).
- If you are purchasing directly from Riverbed, additional terms and conditions applicable to invoicing and payments apply. If you are purchasing through an authorized Riverbed channel partner, please contact your channel partner representative.
- The Riverbed Cloud Migration Assessment Service is subject to the applicable terms and conditions available at <https://www.riverbed.com/service/terms> (Agreement). If there is a separate mutually signed agreement between customer and Riverbed expressly covering the Cloud Migration Assessment Service, then the express terms of that agreement will govern, provided however, in the event of a conflict between the Agreement and any existing agreement, the terms of the Agreement will control.

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### About Riverbed

Riverbed enables organizations to maximize performance and visibility for networks and applications, so they can overcome complexity and fully capitalize on their digital and cloud investments. The Riverbed Network and Application Performance Platform enables organizations to visualize, optimize, remediate and accelerate the performance of any network for any application. The platform addresses performance and visibility holistically with best-in-class WAN optimization, network performance management (NPM), application acceleration (including Office 365, SaaS, client and cloud acceleration), and enterprise-grade SD-WAN. Riverbed's 30,000+ customers include 99% of the *Fortune* 100. Learn more at [riverbed.com](https://riverbed.com).

