

# CA LISA® Service Virtualization



## At a Glance

Applications are essential to business today, yet time-to-market, development cost, and application quality remain significant challenges. The complexity and constraints inherent to composite application development continue to disrupt application development efforts despite ever-increasing investment and focus.

The CA LISA® product suite simulates constrained or unavailable systems and networks conventional virtualization cannot touch. The CA LISA solutions are designed to allow customers to more effectively develop in parallel, require less infrastructure for software development, and find defects earlier in the application development process. This means applications delivered to market faster, lower costs for application development systems and environments, and higher quality applications for end users.

### Key Benefits / Results

The CA LISA suite delivers a proven solution to the problems of system dependency, cost and quality constraints when developing complex, customer-facing applications. Significant measured results from recent customers include:

- **Fortune 100 Global Bank.** Avoided \$30M in infrastructure and performance lab configuration costs in Year one by replacing manually coded “stubs” and responders with CA LISA Virtual Services.
- **Major Telco.** Reduced development and testing cycle times by 40%+ within the first 3 months of the project, for a first-quarter ROI of 450%.
- **Leading airline:** Saved more than \$1.5M per month in application service fees across 12 development and integration teams
- **Property and casualty insurer.** Reduced cycle times for new IT functionality releases by 6 weeks per 3 month cycle, thereby doubling IT delivery capacity, while decreasing errors discovered in pre-production or production by 90%.

## Business Challenges

Most new enterprise applications are built in modern, distributed environments, supported by multiple service teams and delivery partners. This makes development and testing extremely complex and expensive. Key challenges include:

**Unavailable/Inaccessible.** Systems become constrained due to schedules, security restrictions, contention between teams, or because they are still under development.

**Poor performing.** Downstream systems and mockups may not provide the functional behavior or performance response needed, network connections in the test lab do not reflect production network conditions, and end user performance suffers.

**Hardware-based virtualization doesn't work.** Systems are either too difficult (mainframes) or remote (third-party services) to replicate via traditional hardware-based virtualization approaches.

**Costly third-party access fees.** Developing or testing against cloud-based or other shared services can result in costly usage fees.

## Solution Overview

The patented Service Virtualization capability in CA LISA has the unique ability to eliminate constraints by virtualizing a target system's dynamic behavior, performance and data so the need for live systems is eliminated or reduced.

Development teams armed with low-cost, always-available, on-demand virtualized environments “shift quality left”, delivering better quality sooner with less downtime and project risk. Customers often report as much as a 25%-50% reduction in cycle times, reduced lab infrastructure costs and simplified test scenario and data management within three months of adoption.

## Key Features

**“Shift Left”.** Move software development into parallel and test and validate sooner in the software lifecycle where it is less expensive and issues are easier, less disruptive, and less expensive to resolve.

**Infrastructure requirement reduction.**

Eliminate much of the concurrent demand for environments and hardware requirements agile methodologies create.

**Performance readiness.** Solve the challenging problems of properly evaluating the scalability of applications by load testing at the component level instead of waiting until the application is complete, in conjunction with incorporating production network conditions in the test lab.

**Data and scenario management.** Reduce or eliminate the need for complex test data management, system set-up and other complexities by virtualizing the system behavior to account for edge conditions, negative test scenarios and error conditions.

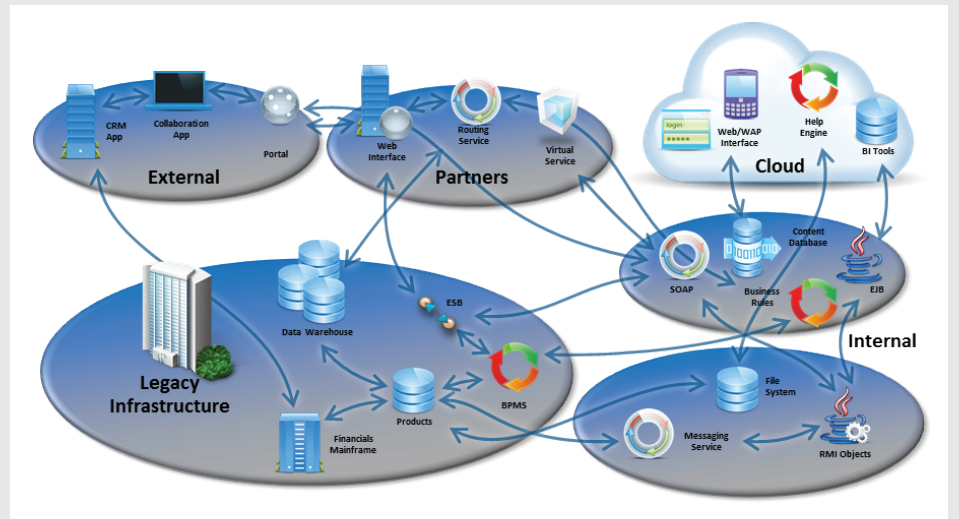
## Critical Differentiators

Optimize the software lifecycle with CA LISA solutions, accelerating the enterprise software development process through:

- **Service Virtualization.** Capturing and simulating the behavior and data of unavailable or incomplete systems, acting as a stand-in throughout the software lifecycle, and removing constraints.
- **“Shifting Left”.** Moving many parts of the software development process in parallel and sooner in the lifecycle without traditional constraints such as lab availability, test scenarios and data, or access to restricted systems such as mainframes.
- **Reducing demand for lab infrastructure and software.** Saving significant hardware and software costs and configuration effort.

For more information, please visit [ca.com/CA-LISA](http://ca.com/CA-LISA)

## Modern Application Development Architecture



- **Leveraging the enterprise IT group’s existing application development and integration platforms.** Rather than changing technologies, making your processes work better.

- **Service Virtualization for Networks.** Discovering and emulating production network conditions within the test lab, so connections in test more reliably reflect the real world.

The CA LISA suite delivers a powerful solution for accelerating the delivery of new application functionality, and helps ensure complex, distributed applications achieve high quality and performance levels.

## Related Products/Solutions

- **CA LISA Pathfinder** automates the process of creating and maintaining virtual services and simplify the production and management of automated test suites through the use of live application traffic captured in pre-production.
- **CA LISA Service Virtualization for Networks** discover and emulate production network conditions within the test lab, so connections in test more reliably reflect the real world.

## Service Virtualization Configurations

**CA LISA Service Virtualization and CA LISA for Development** are best for use cases in development, integration, testing, and user acceptance. Instances of these products service up to 10 parallel transactions at one time, or roughly 10 transactions per second. The Service Virtualization product is server-based and best for supporting many users where less personalization for each user is required. The Development product gives each developer or quality engineer a private virtual service environment on the desktop with the control and flexibility of the Service Virtualization server.

**CA LISA Service Virtualization for Performance** is designed specifically for performance testing applications, and is more scalable, only limited by the underlying hardware and network.

## Agility Made Possible: The CA Technologies Advantage

CA LISA brings agility to composite application development lifecycles. Our CA LISA virtualization and validation software optimizes complex and cloud-based applications throughout the software lifecycle, reducing or eliminating costly constraints and defects, while improving agility in an environment of constant change. CA LISA solutions help eliminate software dependences, decrease release times, and increase the reliability of composite applications that leverage cloud computing, SOA, BPM, integration suites, and ESBs. CA LISA global customers include many of the top Fortune 500 commercial banks, telecommunications firms as well as leading firms in insurance, travel, retail, utilities and government agencies.