

Highly Available Mail and Unified Communication Services with Microsoft Exchange 2010 Platform and Radware's Application Delivery Solution



The Challenge

As enterprises rely more on one unified messaging communication infrastructure, it is becoming critical to ensure this communication infrastructure is always available, highly responsive and more cost effective. Providing an efficient service becomes an even greater challenge as the variety of clients and means of connection increases.

The Solution

Microsoft Exchange 2010 combined with Radware's Application Delivery Controllers (ADC) provide a best-of-breed solution for scalable, highly available, highly performing and cost effective infrastructure for enterprise communication services, and to the wide variety of users, access clients and applications relying on it.

Combined Solution Benefits

- Highly available communication infrastructure through Radware's server health monitoring and smart load balancing features
- Optimized Quality of Experience (QoE) and server offloading via integrated application acceleration features
- Scalable, cost-effective solution with Radware's "pay-as-you-grow" approach meeting business growth demand
- Tested and validated combined solution, by Radware performance team

Radware Application Delivery Solution Provides Redundancy, Smart Load Balancing, Persistency and Acceleration for Microsoft Exchange 2010 Servers

In today's business landscape, organizations increasingly rely on cost-effective communication tools to increase productivity. Therefore, the need for a unified communications solution which not only enables higher productivity and mobility but is also highly reliable and best performing - is driving large organization's communication infrastructure evolution.

Microsoft Exchange 2010, the cornerstone of Microsoft's Unified Communications solution, is a flexible and reliable messaging platform that can help lower messaging costs by 50%-80%, increase productivity with anywhere access to business communications, and safeguard business with protection and compliance capabilities that help manage risk.

Microsoft Exchange 2010 provides an umbrella of services, including: email, voice-mail, voice to text, SMS, calendar, contacts and tasks – all under one unified messaging mailbox. The choices for accessing the Exchange 2010 services are also varied and include Microsoft Outlook client, as well as support for various third party mail clients, Outlook Web Application (OWA), Exchange ActiveSync for mobile devices mailbox synchronization and Exchange Web services – an API for third party applications using the Exchange 2010 services.

The Challenge: Business Productivity and Performance are Directly Affected from Unified Communications Potential Shortcomings

As the Exchange 2010 solution provides most of the organization's communication services, it plays a critical role in the mainstream day-to-day business activity. To ensure business continuity, it is imperative to have the communication platform operating at all times.

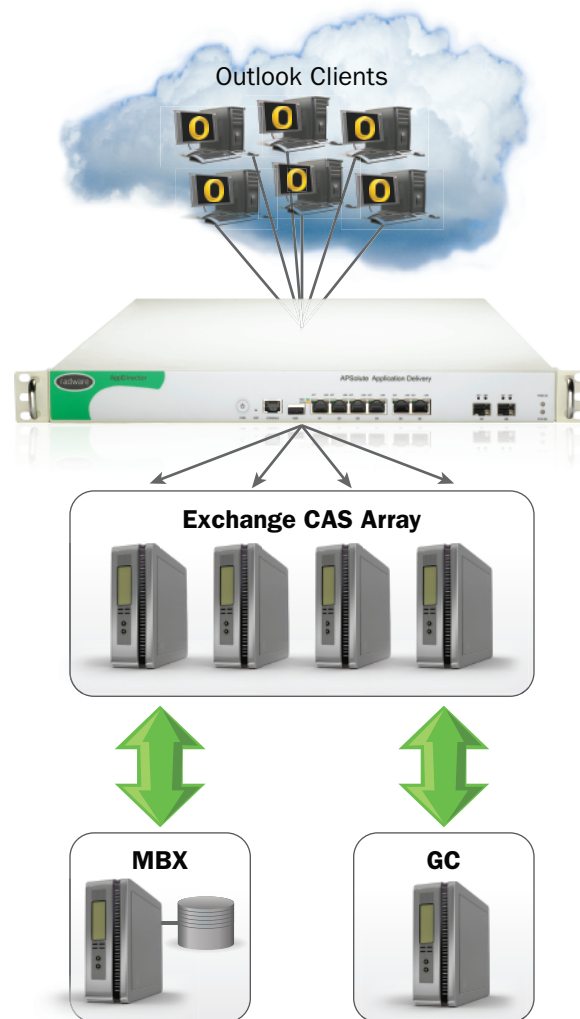
To ensure the High Availability (HA) and scalability of the Exchange 2010 solution, it is required to deliver a redundancy solution for the Client Access Server (CAS) array, in case any of them become unavailable.

In addition, as the number of users of the Exchange 2010 platform grows, along with the amount of services it provides to the organization, there is increased competition over the CAS array resources, which drives and emphasizes the need to support future growth while maintaining fast response times, service availability and a guarantee of the highest Quality of Experience (QoE) for the end user.

Microsoft Exchange 2010 HighAvailability and Acceleration with Radware Application Delivery Solution

Radware’s Application Delivery Controller (ADC) and Microsoft Exchange 2010 combined solution is designed to provide a highly scalable and highly available unified messaging and communication infrastructure, with fastest response time. By deploying these two best of breed subsystems, end users can benefit from a significantly improved QoE.

Using advanced health monitoring of each of the client access servers, Radware’s ADC can validate the availability and response time of those resources, as well as deliver seamless load balancing, redundancy and persistency features. Furthermore, Radware ADC provides service acceleration through compression, caching and SSL termination to the Exchange users, offloading critical resources from the CAS servers, enabling smaller CAS arrays and thus lower CAPEX and OPEX to the organization.



- Radware Application Delivery Controller (ADC), providing:**
- High availability
 - Health monitoring
 - Scalability
 - Acceleration via compression and caching
 - SSL offloading

Features and Benefits

Using Microsoft Exchange 2010 and Radware ADC solutions, customers can receive the following key business benefits:

- A complete high availability and high-performance communication solution - by leveraging Radware Application Delivery solution capabilities, such as server health monitoring and smart load balancing, the Microsoft Exchange 2010 solution is ensured to be always available, more robust and highly responsive
- The combined Radware-Microsoft solution can support larger number of users with smaller and more cost effective infrastructure, by offloading resource intensive server tasks to the Radware ADC, such as SSL termination and thus supporting more users per server (CAS)
- By using the Radware ADC with its content caching and compression features in conjunction with the Microsoft Exchange 2010, end-users connected over slow speed WAN connections (such as over cellular networks), can benefit from faster response time and a noticeably improved QoE
- Seamless scalability – Radware’s “pay-as-you-grow” approach enables adding more capacity to the solution, with no service interruption or system reconfiguration, via Radware’s On-Demand Switch platforms
- A validated solution by Radware performance team - test reports and configuration guidelines can be found on the Radware website:
- [Radware-Microsoft Alliance page](#)

Implementation details:

Further implementation details and guidelines can be found at: [Radware-Microsoft Alliance page](#)

About Radware

Radware, the global leader in integrated application delivery solutions, assures the complete availability, performance and security of business-critical applications for more than 10,000 enterprises and carriers worldwide. With Radware’s comprehensive APSolute suite of application front end, access and security products, companies can drive business productivity, improve profitability, and reduce IT operating and infrastructure costs by making their networks “business-smart.”

About Microsoft

Founded in 1975, Microsoft (Nasdaq “MSFT”) is the worldwide leader in software, services and solutions that help people and businesses realize their full potential.