

# Highly Available Mail and Unified Communication Services with Microsoft Exchange 2013 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 increase.

## The Solution

Microsoft Exchange combined with Alteon Application Switch 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 Alteon'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's Alteon Application Switch Provides Redundancy, Smart Load Balancing, Persistency and Acceleration for Microsoft Exchange 2013 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, 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 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 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 services.

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

As the Exchange 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 solution, it is required to deliver a redundancy solution for the Client Access Server (CAS) array, in case any of them become unavailable.

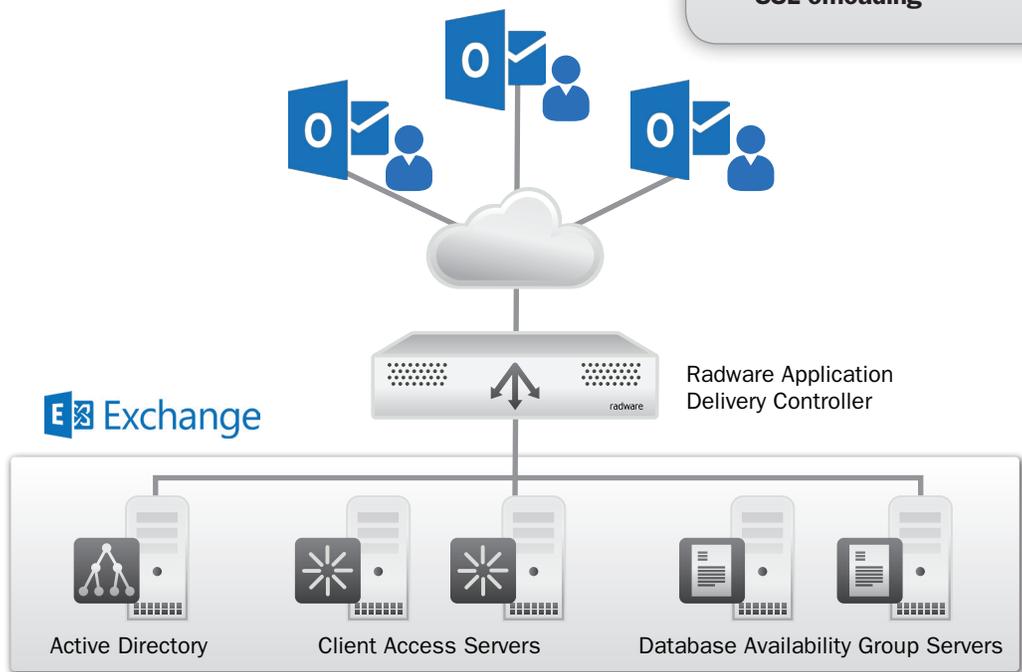
In addition, as the number of users of the Exchange platform grows, along with the amount of services it provides to the organization, there is increased competition over the CAS array resources, which drives and emphasizes the need to support future growth while maintaining fast response times and service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

**Microsoft Exchange High Availability and Acceleration with Radware’s Alteon Solution**

Alteon Application Switch and Microsoft Exchange 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, Alteon can validate the availability and response time of those resources, as well as deliver seamless load balancing, redundancy and persistency features. Furthermore, Alteon 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.

- Alteon Application Switch provides**
- High availability
  - Health monitoring
  - Scalability
  - Acceleration via compression and caching
  - SSL offloading



## Features and Benefits

Using Microsoft Exchange and Alteon Application Switch customers can receive the following key business benefits:

- A complete high availability and high-performance communication solution - by leveraging Radware's Alteon capabilities, such as server health monitoring and smart load balancing, the Microsoft Exchange solution is ensured to be always available, more robust and highly responsive
- The combined Alteon-Microsoft solution can support larger number of users with smaller and more cost effective infrastructure, by offloading resource intensive server tasks to the Alteon switch, such as SSL termination and thus supporting more users per server (CAS)
- By using the Alteon with its content caching and compression features in conjunction with the Microsoft Exchange, end-users connected over slow speed WAN connections (such as over cellularnetworks), 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

## 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 solutions companies can drive business productivity, improve profitability, and reduce IT operating and infrastructure costs by making their networks "business-smart."