



*Simplifying complex networks*



**Intelligent Load Balancing  
for Smarter Networks and  
Applications**

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## **Resonate Global Dispatch™**

Microsoft UAG environments

With today's increasing need to be constantly connected, corporations require platforms that provide secure remote access to corporate resources for employees, vendors and partners. As companies with dispersed workforces and clientele increasingly use the public internet to access corporate resources from an increasingly diverse range of endpoints, System and Network Administrators struggle to securely and reliably provide that access while ensuring that the solution can scale to answer demand.

Resonate Global Dispatch provides High Availability and traffic management capabilities that ensure dependable, predictable performance and responsiveness of UAG gateways and appliances. Moreover, it introduces industry-leading features to extend its active intelligence to UAG delivered applications, and services. This enables businesses to meet the challenge of guaranteeing secure application availability while ensuring that UAG nodes can scale to answer peaks in demand.

Global Dispatch's Active Intelligence assures a positive user and customer experience and satisfies expectations, by programmatically providing preferential services in addition to high availability and performance.

## Unified Access Gateway

Microsoft's UAG platform is a comprehensive, remote access security engine that grants secure remote access to internal applications and services. <http://www.microsoft.com/forefront/unified-access-gateway/en-us/overview.aspx>

UAG provides centralized, policy based, management of all remote access applications. It provides a deep understanding of the available applications, the health of devices used to gain access to those applications as well as the identity of the user attempting to gain access. UAG enforces granular access controls and policies to deliver comprehensive remote access, ensure security, and reduce management costs and complexity

## Features and Benefits

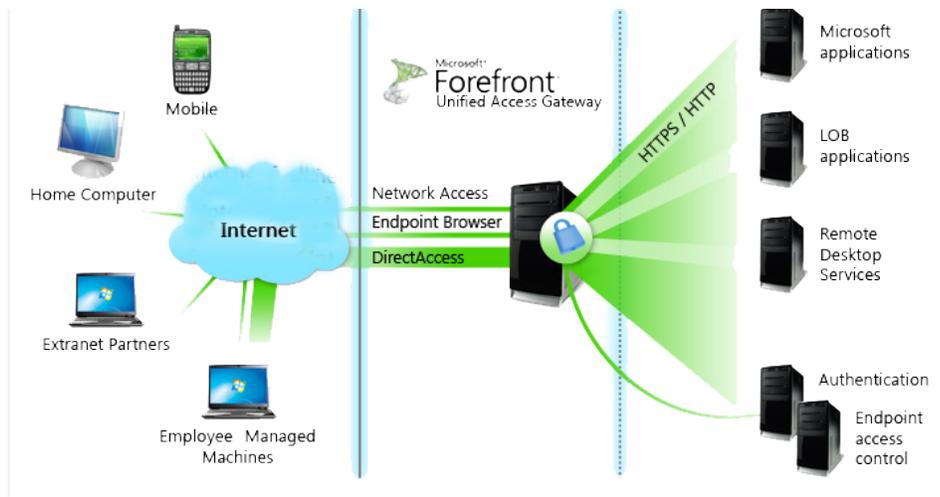
Key benefits of UAG deployments include:

- A combination of SSL VPN-based access, integrated application protection, and endpoint security management.
- A consolidated and comprehensive gateway to provide access to virtually any application from virtually any location.
- A powerful, Web-application firewall that helps keep malicious traffic out, and sensitive information in.
- Reduced complexity of managing secure access and protecting business assets with a comprehensive, easy to use platform.
- Interoperability with core Microsoft application infrastructure, third-party enterprise systems, and custom in-house tools.

## Typical UAG 2010 deployment

UAG nodes are deployed at the perimeter of a company's internal network and generally act as gatekeeper or bastion for services offered from within the private network.

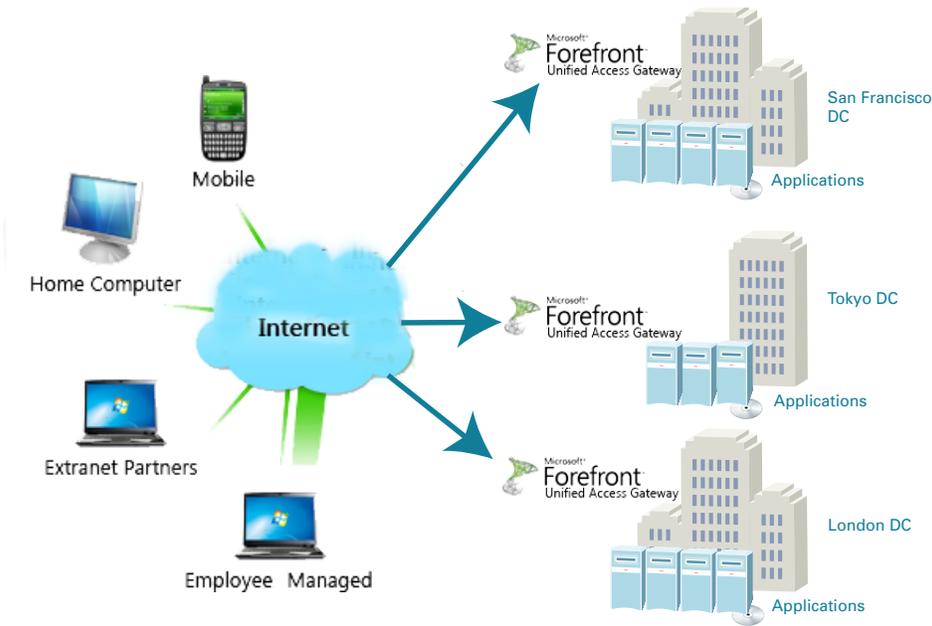
Traditional, wireless, and mobile clients all access the internal corporate resources through access policies defined through the UAG nodes.



## Redundant UAG 2010 deployment

Microsoft's Native multi-node deployments enable businesses to handle greater numbers of clients at the expense of flexibility and manageability. These deployments require that the nodes be in the same data center and on the same network segments.

The default UAG deployment relies on DNS round robin for the distribution of client requests across different data centers or network segments.



**Distribution is not ideal**  
 This configuration does not take existing load and usage at each of the data centers into consideration. The benefit of availability and additional scalability are limited.

## Resonate Advantage

Resonate Global Dispatch™ is a software-based global management solution that provides:

- High Availability and scalability for multiple UAG deployments
- Active monitoring and redundancy for entire data centers
- Distribution of client traffic among all UAG data centers or network segments.
- Distribution of traffic can be based on client origin or on data center load levels.

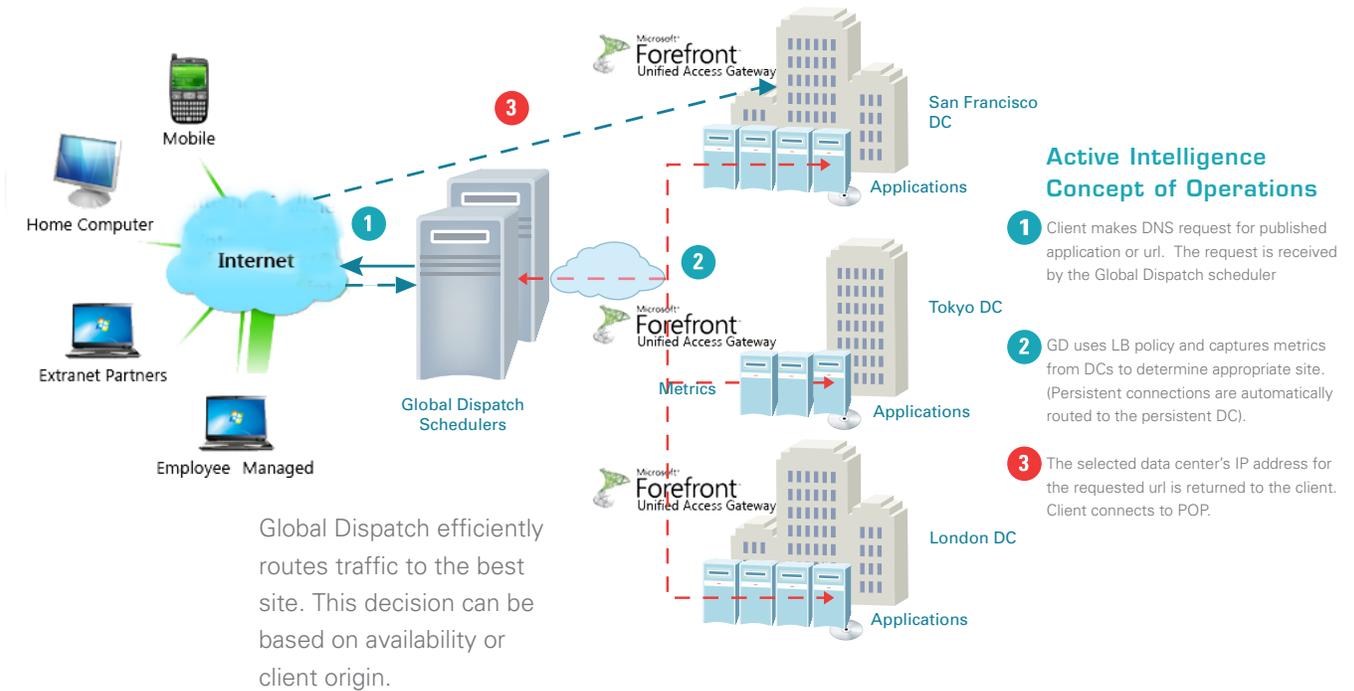
Resonate Global Dispatch™ eases the scalability issues from the previous graphic while adding high availability as well as additional functionality to UAG.

Using Global Dispatch's Active Intelligence, multiple UAG deployments can act as a single, highly available system. With the Global Dispatch layer, the ability to load balance traffic across multiple UAG deployments comes naturally and seamlessly.

All data centers share the same url(s) or host names and are redundant for one another, both in terms of scalability as well as availability.

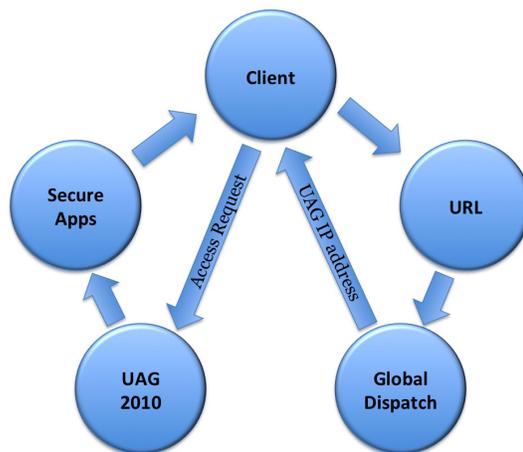
Resonate Global Dispatch™ monitors the data centers with its distributed software solution. When a failure is detected in the data center, Global Dispatch will automatically redirect traffic away from the failed data center.

In addition, Resonate Global Dispatch™ can ensure that client persistence is maintained and can also base decisions on localization factors.



### Resonate Advantage

Global Dispatch™ sits on the outer edge answering client requests for resolution of UAG published applications and services. These requests are processed through a functional component called a scheduler, before passing it to the UAG 2010 appliances at each of the data centers. The scheduler selects the Data Center based on the load balancing policy selected as well as the availability and metrics captured from each of the UAG centers



## Partnerships and Accolades

Resonate has built strong relationships with key eco-system partners, each of which help make Resonate load balancing solutions stand out from the competition. As a result, Resonate is fortunate enough to continue receiving many of the industry's most sought after nominations and awards.



ORACLE



## Voice of the Customer

With a passionate focus on customer service, Resonate will become your trusted partner... not just another vendor. Every Resonate solution is carefully tailored to ensure the customer experiences the maximum benefit in the shortest time possible.

*"We delivered a big demo for a publisher, and within 10 minutes our server was overwhelmed. After Global Dispatch was configured, the pages sprung back and we saw thousands of users balanced across our servers. A brilliant, superbly engineered system that is going to play a big part for GameShadow in the future. Combined with Resonate's strong support ethic, we simply couldn't be happier."*

**Tony Treadwell – COO**  
**GameShadow**

*"Resonate has made a very positive impact on the availability of our IT systems. It has not only given us fault tolerance for our infrastructure, but has also allowed us extra flexibility in both front and back end testing in our complex, decentralized environment."*

**Ernie Soffronoff - Manager of Web Services**  
**Robert H. Smith School of Business at the University of Maryland**

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