

Soha Cloud: The Cloud and Mobile Ready Replacement for Microsoft UAG-TMG

Microsoft announced the discontinuation of its Forefront Unified Access Gateway (UAG) product line in 2014 with all support terminating in April 2015. The Microsoft Forefront UAG product line was a differentiated solution for remote application access that integrated multiple functions including reverse proxy, SSL VPN, Web application firewall (WAF) and endpoint security management (for compliance). Because this wide range of functionality have not, until now, been replicated in a cloud and mobile friendly solution UAG customers have been left without a good migration path to a replacement solution.

Soha Systems delivers a radically new security approach for applications hosted in the cloud or datacenter that is more secure, simpler to deploy, and lower cost replacement for Microsoft UAG. Soha Cloud, a complete application security and access solution by Soha systems is an ideal replacement for Microsoft UAG. Soha Cloud includes the functionality of Microsoft UAG with a unique cloud deployment model that allows organizations to eliminate inbound access into their data center and/or Hybrid cloud environments and centralize security enforcement and access management.

Overcoming UAG Replacement Challenges

Finding an enterprise-grade replacement for Microsoft UAG has been difficult because the functions integrated by UAG are often only found in single function products. This means companies have had to purchase separate **reverse proxies, SSL VPN gateways, WAN optimization, L4-7 Firewalls, Denial of Service (DDoS) attack prevention, and Application delivery controllers**. The complexity of integrating all of these components with existing infrastructure can lead to long, error prone, implementation that, together with the acquisition cost, can stretch the total replacement UAG cost into the millions of dollars.

Beyond 1:1 replacement, today's enterprises need solutions that are built for the realities of cloud computing, a mobile workforce, and global partner ecosystems. This means adding key capabilities that were not included in the Microsoft UAG product line.

Soha: Simple, Complete UAG Upgrade

Because Soha Cloud is a cloud-based security and access platform, it eliminates the complexity of integrating multiple single function appliances. Soha adds the capabilities needed for today's cloud and mobile enabled enterprises and delivers the solution as a service for simple complete upgrade of Microsoft UAG installations.

Soha Cloud creates an air gap between your organization's infrastructure and the Internet, minimizing your attack surface and making your applications invisible to the public. Unlike existing network security appliances and access methods, Soha Cloud enables companies to lock down all inbound access to their internal networks and any cloud infrastructure while isolating access to specific applications.

Enterprise Needs

- The ability to authenticate users to an on premise Active Directory (AD) server for access to an in-the-cloud application
- The ability to add two-factor and multifactor authentication in front of existing applications
- Zero-client, Zero-VPN foot print on mobile devices
- Eliminating the need for long, complex firewall rules for inbound access

Unlike Microsoft Forefront UAG, Soha Cloud is a client-less solution, which protects the enterprise applications, hosted in any cloud or on-premise datacenter. Using Soha Cloud, end-users can access any Web application, Linux secure shell or Microsoft Windows RDP sessions in any HTML5 browser with no browser plugins or SSL VPN connectivity. Moreover, Soha Cloud provides direct integration with on-premise AD servers, and can add multi-factor and two-factor authentication in front of your applications without application modification or plugins.

Side by side: Soha Cloud and Microsoft UAG

Feature	Soha Cloud	Microsoft UAG	More Info
Clientless Solution	✓	✗	Soha Cloud is a client-less service that replaces the VPN with application specific access through its inside-out secure architecture.
Can run on any Hardware or Software/OS platform	✓	✗	Soha Cloud has no dependency on hardware. It is a cloud-based service that can run in any data center or virtualized infrastructure including Microsoft Azure, Hyper-V, VMware vCloudAir, VMware vCenter, KVM, Openstack, Docker Container and AWS environments.
Doesn't require Firewall ports opened in inbound direction	✓	✗	Soha doesn't require any inbound ports opened on the firewall. Connectivity is provided by outbound TLS connections from your infrastructure to the Soha Cloud.
Applications in Public Cloud	✓	✗	Soha Cloud supports applications hosted in either public or private cloud. It provides a single pane of management to secure the applications hosted in hybrid cloud environments.
Distributed Denial Of Service (DDoS)	✓	✗	Soha provides protection against Internet scale volumetric DDoS attacks and targeted layer 7 attacks against your applications
URL Re-direction	✓	✗	End users can continue using the same external URL, normally used to access the enterprise application.
Load balancing with active session Failover	✓	✓	Soha Cloud supports load balancing between multiple application Web front ends with active session failover.
Enhanced Traffic Filtering/ Firewall	✓	✗	Soha Cloud offers enhanced traffic filtering capabilities to control unauthorized traffic to your secure enterprise application based on a granular access control criteria.
WAN Optimization	✓	✗	Soha Cloud provides TCP optimization and header compression techniques to minimize the latency in accessing the enterprise applications from anywhere around the world.
Active Directory Integration	✓	✓	
IdP (SAML) Integration	✓	✗	Soha Cloud integrates with any SAML 2.0 Identity Provider (for example OKTA, PingOne or OneLogin).
Cloud Directory	✓	✗	Soha Cloud offers an integrated directory as part of the service to provide fast end user authentication for any third party, partners or contractors.
Session Logging Capability	✓	✗	Soha Cloud provides a detailed logging capability for compliance and auditing. It logs all the keystrokes made on the Application web frontends and inside SSH sessions along with end user information and location.
API Support	✓	✗	Soha Cloud deployment and operation can be automated via RESTful-API integration.
RDP/SSH/VNC Application support	✓	✗	Soha Cloud protects not only Web application frontends but it also secures the access to RDP, SSH and VNC applications. Users can access RDP and SSH sessions in any HTML5 browser without any clients installed on the end device.
Single Sign On (SSO)	✓	✓	
Multi-factor Authentication (MFA)	✓	✗	Soha Cloud has built-in Multi-Factor Authentication.
One-Time Password (OTP)	✓	✗	Soha Cloud has built-in two-factor authentication otherwise known as one-time password (OTP).