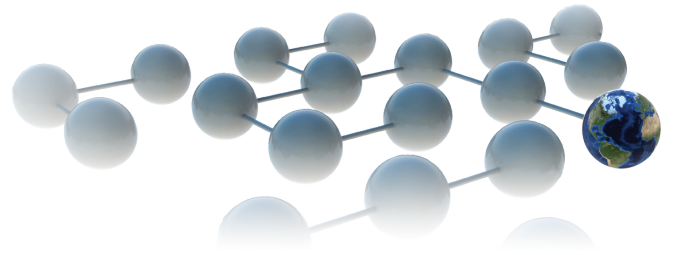


# H<sub>2</sub>A High Availability



H<sub>2</sub>A is Global Technology Associates' high availability solution providing a cost effective resilient network security solution.

## H<sub>2</sub>A Key Features

- Fast, transparent failover
- Maintain network security during firewall downtime
- Quick, easy set-up
- Easy installation via activation code
- Configure and manage with standard GB-OS interfaces



## Redundant Failover for 24/7 Networks

In today's economy, information is a key factor to success. Your network is the key that allows fast, easy access to information in your office and around the world. To ensure access to your vital information, your network infrastructure must provide reliable, secure connections to the Internet.

GTA firewalls form the foundation for your network security by preventing unauthorized access to your network. But, have you considered what would happen to your network security if your firewall went offline? There's a simple solution that will provide failover protection - H<sub>2</sub>A, GTA's high availability option. With H<sub>2</sub>A, you can be sure that firewall downtime does not mean network access downtime.

## Why High Availability?

H<sub>2</sub>A allows you to build a continuously available firewall system of GTA firewalls. The basic high availability configuration consists of two identical GTA H<sub>2</sub>A compatible firewalls each with the H<sub>2</sub>A option activated.

GTA H<sub>2</sub>A compatible firewalls operate as one virtual GTA firewall system so you can locate them anywhere on your network without the need of special connecting cables. Should the primary GTA firewall go offline, the standby GTA firewall automatically and transparently switches to primary mode. Your organization never loses secure network access.

## 24 x 7 Network Security

The H<sub>2</sub>A - High Availability option for GTA firewalls allows you to maintain network security in case of primary firewall downtime. With fast, transparent fail-over should your primary firewall go offline, you are assured continuous access to your vital information. And your firewall configurations are maintained seamlessly during the fail-over process.

Including a GTA H<sub>2</sub>A - High Availability chain of firewalls means Internet access downtime due to firewall updates or hardware failure is virtually eliminated. By utilizing the GTA H<sub>2</sub>A - High Availability option your network is protected against loss of Internet connectivity due to firewall downtime. Firewall replacement, utilizing either a standby firewall or advanced replacement through a support contract, can still result in several hours or even days of unprotected Internet access.

## Product Part Numbers

H<sub>2</sub>A Option, Single License: GB-820, GB-800/e  
H<sub>2</sub>A Option, Single License: GB-2100, GB-2000/e/X  
H<sub>2</sub>A Option, Single License: GB-3000, GB-2500  
H<sub>2</sub>A Option, Single License: GB-Ware

## Transparent Operation

An H<sub>2</sub>A system is transparent to end users and requires no obvious changes to network end users' configurations. Users will see only the IP address of the virtual H<sub>2</sub>A firewall regardless of which physical firewall in the H<sub>2</sub>A chain is operating as the master unit.

## Easy Installation

The feature is easy to use. Building a high availability network firewall infrastructure has never been easier. Set up two or more systems anywhere on the same network, enter the activation codes, and begin customizing the H<sub>2</sub>A option. There's no additional software to install. Simply purchase a H<sub>2</sub>A license for each GTA Firewall Appliance and enter the activation code, retrieved from GTA's online support center, to enable H<sub>2</sub>A on your firewall. That's it: no special cabling and no extra software, simply install your GTA Firewall UTM Appliances anywhere on the same network.

## Simple Configuration

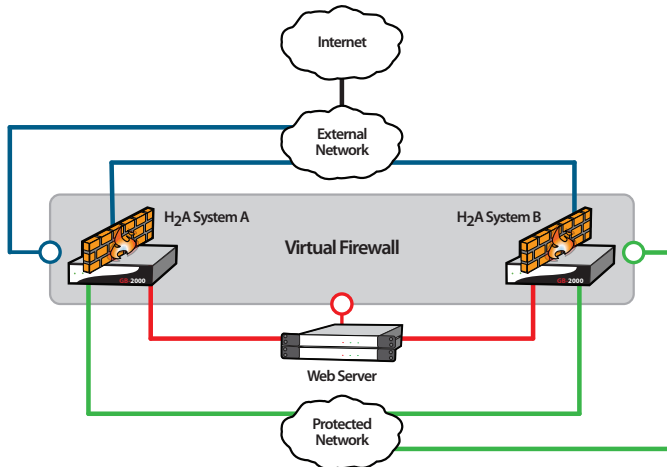
To set up the H<sub>2</sub>A chain, the H<sub>2</sub>A option is activated and configured on your firewalls using the standard GB-OS interface, so there's no long learning curve. Simply define each firewall in the H<sub>2</sub>A chain as a high availability firewall and assign it a priority number. The GTA firewall with the highest priority will function as the primary firewall, while the others function as standby firewalls. Each firewall in the chain listens to network activity, continuously scanning for broadcasts of high availability status information. By using the web interface you can manage your H<sub>2</sub>A configuration securely from anywhere on the your network. With GTA's fast configuration, your H<sub>2</sub>A solution can be operational in minutes.

ESHA00-0001-00R40  
ESHA00-0001-00G50  
ESHA00-0001-00F10  
ESHA00-0001-00S30

# H<sub>2</sub>A High Availability

## How H<sub>2</sub>A - High Availability Works

Building a high availability network firewall infrastructure has never been easier. Using two GTA H<sub>2</sub>A compatible firewall appliances with GB-OS you can quickly be up and running with a fully redundant, continuously available firewall system. There's no additional software to install. Simply purchase a H<sub>2</sub>A license for each GTA firewall and enter the activation code supplied through GTA's online support center to enable H<sub>2</sub>A on your GTA firewalls.



Once your H<sub>2</sub>A option has been activated and configured, the systems work together transparently to ensure that your network has constant firewall coverage. Each GTA H<sub>2</sub>A compatible firewall continuously listens to network activity for H<sub>2</sub>A status and responds to changes in H<sub>2</sub>A information by moving from listening (standby) to primary (active) modes as needed. In addition, the primary GTA H<sub>2</sub>A firewall unit also polls each of its interfaces for functionality and should an interface fail, the primary GTA H<sub>2</sub>A firewall unit moves to listening mode allowing one of the listening GTA H<sub>2</sub>A firewalls to take over as the primary unit. The H<sub>2</sub>A system works seamlessly and transparently protecting your network from firewall downtime.

For organizations with 24 x 7 mission critical operations, GTA's H<sub>2</sub>A option provides an extra level of fail-over redundancy by allowing more than two GTA H<sub>2</sub>A compatible firewalls in the high availability chain. Each standby GTA H<sub>2</sub>A compatible firewall is ready to take over primary firewall functionality should the need arise.

### System Requirements

- Two (2) or more H<sub>2</sub>A - High Availability compatible GTA Firewall UTM Appliances with identical hardware and software configurations

### Option Availability

GB-3000	✓
GB-2500	✓
GB-2100	✓
GB-2000/GB-2000e/GB-2000X	✓
GB-800/GB-800e	✓
GB-Ware (Unrestricted/Enterprise)	✓

Contact your local GTA Channel Partner or GTA Sales for information on option availability for legacy products.

### Easy Management

H<sub>2</sub>A – High Availability is configured and managed using the GB-OS graphical user interface. For system administrators already familiar with the GB-OS interface, this virtually eliminates the learning curve for implementing high availability. By using the web browser interface you can manage your H<sub>2</sub>A configuration securely from anywhere on your network.

GTA's H<sub>2</sub>A High Availability option also includes the functionality to update the configuration on the standby firewall utilizing the configuration on the primary firewall. The update function reduces network downtime by allowing one firewall to continue protecting the network, while the second firewall is updated. Once the update is complete, it can be re-introduced into the H<sub>2</sub>A cluster as the primary firewall, and used to update other firewalls in the H<sub>2</sub>A cluster. The update function ensures easy updates and consistent configurations, thus reducing administrative costs for maintaining the most current GB-OS for maximum security.

### Cost Effective

With H<sub>2</sub>A you purchase high availability licenses for your GTA H<sub>2</sub>A compatible firewalls. There's no special hardware to purchase and no software to install and learn. GTA's H<sub>2</sub>A – High Availability option is a cost-effective solution by providing firewall failover in a matter of seconds after the primary firewall goes off-line. H<sub>2</sub>A does not require action on behalf of the firewall administrator to maintain connectivity to the Internet.

With an H<sub>2</sub>A – High Availability chain, your administrative costs are kept to a minimum. High Availability option virtually eliminates loss of connectivity to the Internet from firewall downtime. Your organization stays up and running and your network's resources remain accessible to your employees and customers, and the security of your corporate information is continually protected from un-trusted access. Cost savings which are garnered from lower administrative costs, minimal network downtime, and data protection provide a low total cost of ownership for H<sub>2</sub>A – High Availability configurations.

### Solid Reliability

Maintaining an H<sub>2</sub>A chain of GTA Firewall UTM Appliances ensures stable, persistent connections to and through your network. In the event that the primary firewall should go down, the next available firewall that is in standby mode will transparently take over the primary firewall's networking and security duties. Firewall administrators can rest assured knowing that firewall downtime no longer means network downtime. End users won't notice a switch, and connections will remain active.

Creating an H<sub>2</sub>A chain of GTA Firewall UTM Appliances is as easy as placing two or more systems on the network and entering activation codes. GB-OS' simple, yet powerful configuration settings allow administrators to quickly create a secure, highly available network environment.



Global Technology Associates, Inc.  
3505 Lake Lynda Drive, Suite 109  
Orlando, FL 32817 USA  
Tel: +1.407.380.0220 • Fax: +1.407.380.6080  
Email: info@gta.com • www.gta.com

© 2011 Global Technology Associates, Incorporated (GTA). All rights reserved.

'GB-OS', 'Surf Sentinel', 'Mail Sentinel' and 'GB-Ware' are registered trademarks of Global Technology Associates, Incorporated. 'GB Commander' is a trademark of Global Technology Associates, Incorporated. 'Global Technology Associates' and 'GTA' are service marks of Global Technology Associates, Incorporated. Features and specifications subject to change without notice.

Document ID: H2A201102-01