

ISLA® WEB MALWARE ISOLATION SYSTEM

Isla is a unique tightly integrated solution that merges the power of today's advanced processing hardware with advanced hypervisor technology to contain and isolate all potential malware with multiple layers of protection. Isla is only way to eliminate all web-borne malware attacking the enterprise from entering the network.

Solution Guide



Benefits

Protection That Works

Advanced network isolation technology keeps malware from entering the network.

Defeats Costly Attacks

Web, Email, Documents, and Cloud Collaboration systems are all protected by Isla

Covers All Endpoints

Isla protects all corporate endpoints, Mac, Windows, and Linux.

Easy to Use

Isla protects existing browsers without impacting performance, functionality, or usability.

Easy to Deploy

Isla is a network solution that doesn't require an endpoint agent to deliver protection.

Easy to Manage

Isolation policies are simple to create and manage and don't produce false positives

The Enterprise Malware Problem

The web is the #1 vector for attackers to deliver advanced, undetectable malware to an organizations' endpoint devices. Most successful attacks use the browser, web-mail, or malicious web mail attachments or cloud services to breach the traditional detection based defenses used in the past.

The increasing number of successful attacks and breaches over the last few years clearly demonstrates that malware detection is no longer a viable strategy and that a new approach is needed.

Why Isla?

The only way to eliminate all web-borne malware from the enterprise is to shift the focus from malware detection – which can never be 100% accurate - to malware isolation - which prevents all web content from entering the network. Malware isolation is not a new concept, many attempts have been made in the past to implement a barrier between unknown code and a vulnerable system. So why does Isla succeed where so many other products have failed?

Isla is a network based solution that is deployed in the DMZ outside the firewall. Isla supports all enterprise endpoints and delivers the following benefits:

- Security – Isla uses patent-pending technology which provides layered protection and deep isolation ensuring no web code escapes containment.
- Performance –Isla uses the proprietary "Air-Gap" protocol which uses AI to dynamically deliver a seamless and transparent user experience.
- Scalability – The Isla architecture makes it easy to expand the solution, add users, and rapidly scale capacity based on the needs of the organization.

**Content Isolation
Process Isolation**

Proprietary hardened rendering engine
Hardened SE Linux execution kernel

**Session Isolation
Appliance Isolation**

Based on the KVM secure hypervisor
Leverages physical memory isolation
Hardened SE Linux appliance

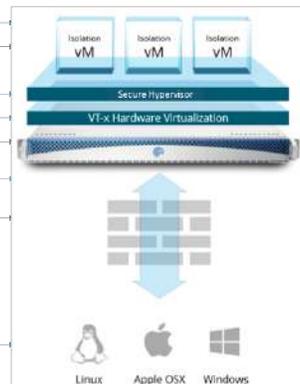
Connection Isolation

Secure encrypted pixel transport protocol

Physical Isolation

Isolates malware outside the network

Quick time to value
Defeats ALL web malware with isolation in depth
Complete enterprise client coverage



Only Isla delivers this level of scalability and isolation across the entire range of enterprise systems while supporting the rich content and interactivity that today's web sites and cloud based applications demand.

Isla Specifications

Isla Zero Client

Google Chrome v49 and above
Internet Explorer 11

Isla viewer for Windows

32-bit and 64-bit Windows
XP/Vista/7/8/10: Intel 500 MHz
Pentium class processor or better
30MB of available disk storage;
50MB of available memory

Isla Viewer for Mac

MAC OS X 10.7 or higher: Intel
Core Duo class processor or
better 30MB of available disk
storage; 250MB memory

Isla Viewer for Linux

Check with Sales representative
for specific Linux versions
supported 30MB of available
disk storage; 250MB of available
memory

Appliance Models

SAS-530

50 concurrent sessions (typical)
Chassis Form Factor: 1U, rack
mount
Chassis Dimensions: 1.75" x
16.93" x 27.95"
Chassis Weight: 40 lbs (18.4kg)

SAS-1030

100 concurrent sessions (typical)
Chassis Form Factor: 1U, rack
mount
Chassis Dimensions 1.75" x
16.93" x 27.95"
Chassis Weight: 40 lbs (18.4kg)

SAS-2030

200 concurrent sessions (typical)
Chassis Form Factor: 2U, rack
mount
Chassis Dimensions: 3.47" x
17.25" x 28.50
Chassis Weight: 85 lbs (38.6kg)

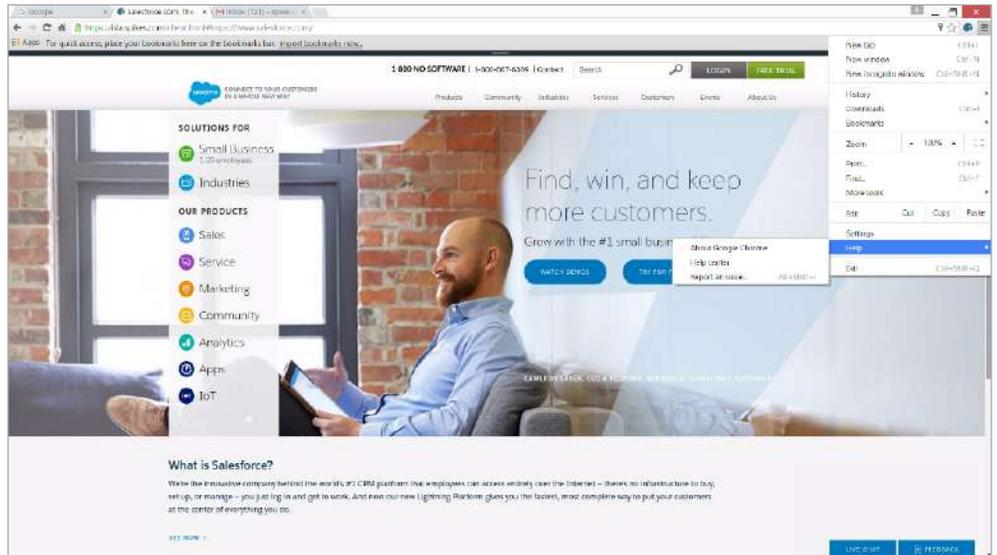
SAS-4030

400 concurrent sessions (typical)
Chassis Form Factor: 2U, rack
mount
Chassis Dimensions: 3.47" x
17.25" x 28.50
Chassis Weight: 85 lbs (38.6kg)

Isla Clients

Zero Client

Zero Client is a transparent, state of the art HTML5 based client which transforms your standard web browser into an impenetrable security tool with minimal impact on the user or the security team. Zero Client is "pushed" into the browser automatically when the user navigates to an external web site.



Isla Zero Client Protects Your Existing Web Browser

Enterprise Viewer Agent

Enterprise Viewer is an optional, secure, light weight agent that installs on the protected endpoint in place of a traditional web browser and provides a single, secure interface for all web browsing activities. Isla Viewer provides the security team with positive control of the users' web browsing experience and advanced identity management ensuring that all potential malware, both known and unknown is isolated outside of the network

The Isla Appliance

Isla appliances leverage the latest hardware isolation technology and host the secure Remote Access Containers (RACs) which are the heart of the Isla system. Appliances are used in conjunction with the Isla Control Center and provide automated load balancing and fail over ensuring high availability and performance.



3rd Party Testing

ICSA Labs, April 2015

“Isla Protects the client from web browser-borne malware.”

“Isla is not vulnerable to remotely executable exploits known within the information security community; does not introduce vulnerabilities or security-grading mistakes.”

Georgia Technical Research Institute, January 2016

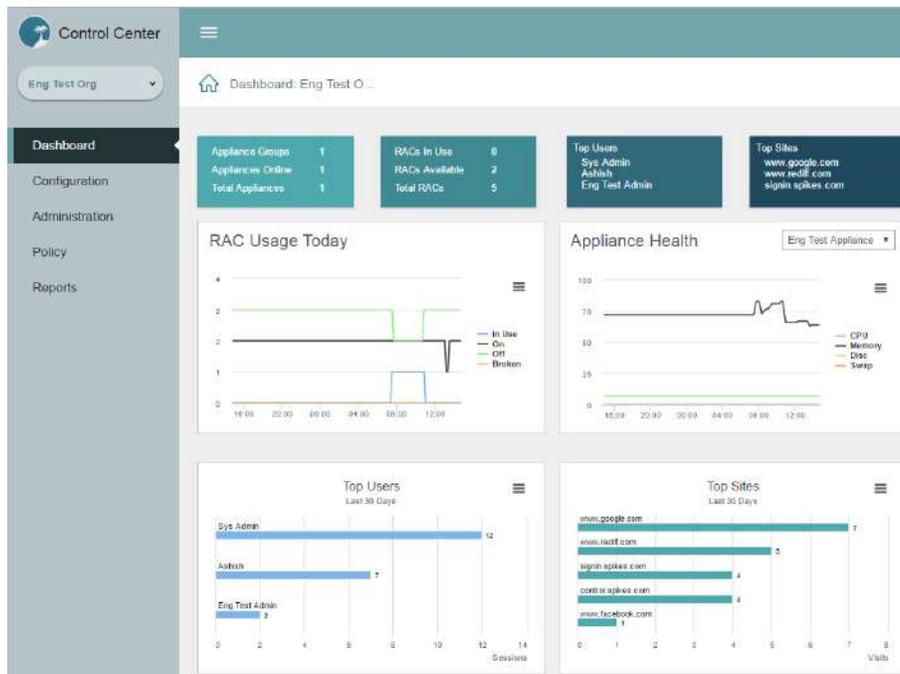
“GTRI believes the isolation technology implemented by Spikes in Isla is effective at preventing the impact of web-based threats to end users.”

“GTRI found the Isla Control Center interface to be streamlined and intuitive to navigate.”

Isla is a break through solution for cyber security. Isla solves the most difficult problem in security today, compromise via advanced web malware. Isla isolates all external web content outside of the corporate firewall ensuring that no malware, including zero day attacks can compromise the organizations systems.

Isla Control Center

The Isla Control Center delivers centralized management and control of the Isla solution. Control Center was designed with an advanced multi-tenant, multi-role architecture for highly distributed on premise or cloud based environments. Control Center is available as a soft appliance or a hardware based appliance.



Control Center provides IT security managers with the tools required for fast deployment and management of Isla across the enterprise. Control Centers’ key administrator tools include the following:

- *Policy Management* – Security administrators can configure security policies for individual users, groups of users or solution wide defaults. Control Center provides LDAP integration for simplified management in large environments.
- *Reporting* – Intuitive dashboard displays report on browsing activity, various security events and alarms, and top trends in users and groups.
- *System performance management* – Quickly provision new users or interoperate with your existing user authentication tools; measure and manage system performance across your enterprise; easily see gaps in coverage; monitor resource utilization and plan for growth.
- *Single pane of glass* – All enterprise controls are in one place, with reporting that helps guide policy decisions for customers that require more granular controls. Configuration and health alerts are also controlled centrally.

For more information, please contact your HPE representative today or email info@cyberinc.com

