Web-to-Host Solution

www.bluezonesoftware.com

The BlueZone Web-to-Host Solution

BlueZone Web-to-Host solutions are uniquely engineered to be the most usable products of their kind, overcoming the usual shortfalls associated with other similar products and appealing to a broader market segment than any other competitive solution available today. The hallmarks of our *BlueZone Web-to-Host* solutions include: low cost, security, central point of administration, speed of operation, usability, flexible deployment options, flexible licensing, browser independence, server compatibility, and stability.

A Different Kind of Web-to-Host Solution

Our primary Web-to-Host offering is called *BlueZone Web-to-Host*. Its core components are based on our field proven BlueZone Desktop emulator that has been marketed for many years. By using BlueZone Desktop as the basis for *BlueZone Web-to-Host*, we were able to offer the stability and familiar features of a Desktop product, with the benefits and convenience of a Web-to-Host solution. At about 960K, the BlueZone Display Emulation Client has all of the features originally developed for BlueZone Desktop, making it as fully featured as a desktop emulator with the size and central administration of a cutting edge thin Web solution.

BlueZone Web-to-Host Speed and Performance

BlueZone Web-to-Host was designed for optimal performance on the platform used on the majority of all business desktops, the 32-bit Windows family of operating systems. The Windows features to which users are accustomed are readily available to our Win32 application — a strong advantage over competing emulators which use Java applet technology.

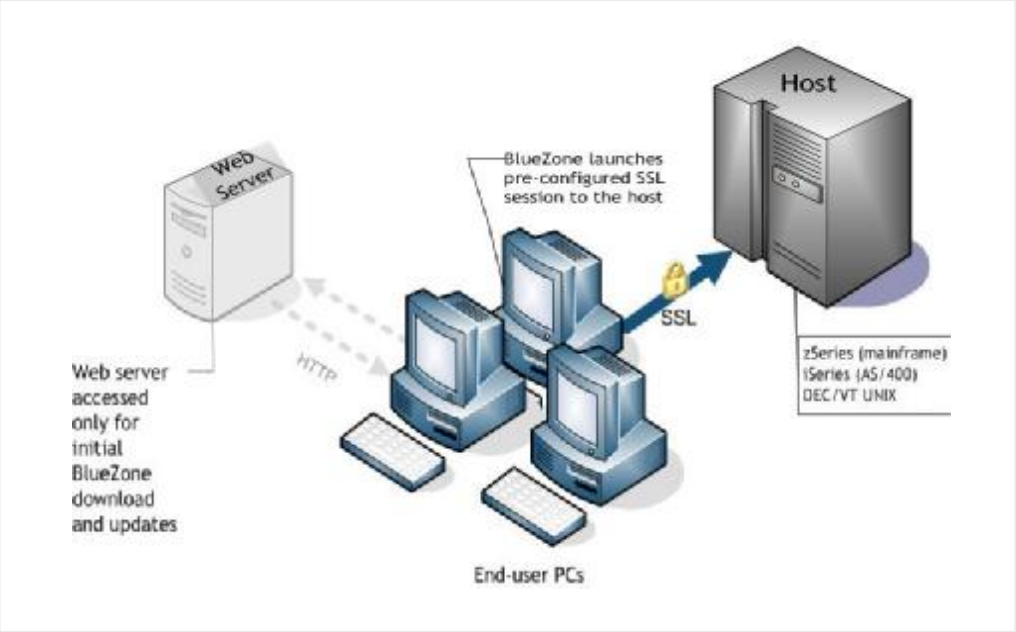
The *BlueZone Web-to-Host* solution uses Web technologies, Active-X, Plugins, and Java to allow seamless support for both Internet Explorer and Netscape browsers. The combination of these Web technologies allows *BlueZone Web-to-Host* to exploit the strengths of each, capitalizing on the ActiveX control or Java applet to deliver and update the emulator, and by employing a Win32 application, avoiding the weaknesses we have seen in Java emulators. This is a key distinction in the superiority of BlueZone Web-to-Host solutions over the competition.

BlueZone Web-to-Host Web Server Options

BlueZone Web-to-Host is Web server independent. Some competitors' products require specific application servers to operate or are limited to one or two different specific Web servers. These installations are referred to as three-tier solutions. *BlueZone Web-to-Host* solutions do not require a specialized application server and are compatible with any enterprise quality Web server. *BlueZone Web-to-Host* is a two-tier solution, requiring less hardware and software to manage, and eliminating the need for an application server that introduces the threat and dissatisfaction of scalability issues.

How BlueZone Web-to-Host Works

BlueZone Web-to-Host is a simple two-tier solution. First, the end user browses to the Web page that contains the link that launches their pre-configured emulation session. Once the emulator is launched, a secure telnet session is established directly with the host, taking the Web server out of the equation altogether.



Step 1: User starts browser and clicks on a hyper link.

Step 2: The Seagull Web-to-Host Control Module (ActiveX control or Java applet) downloads and installs in the browser.

Step 3*:* The Control Module automatically launches a pre-configured secure SSL session with the host.

BlueZone Web-to-Host Deployment Options

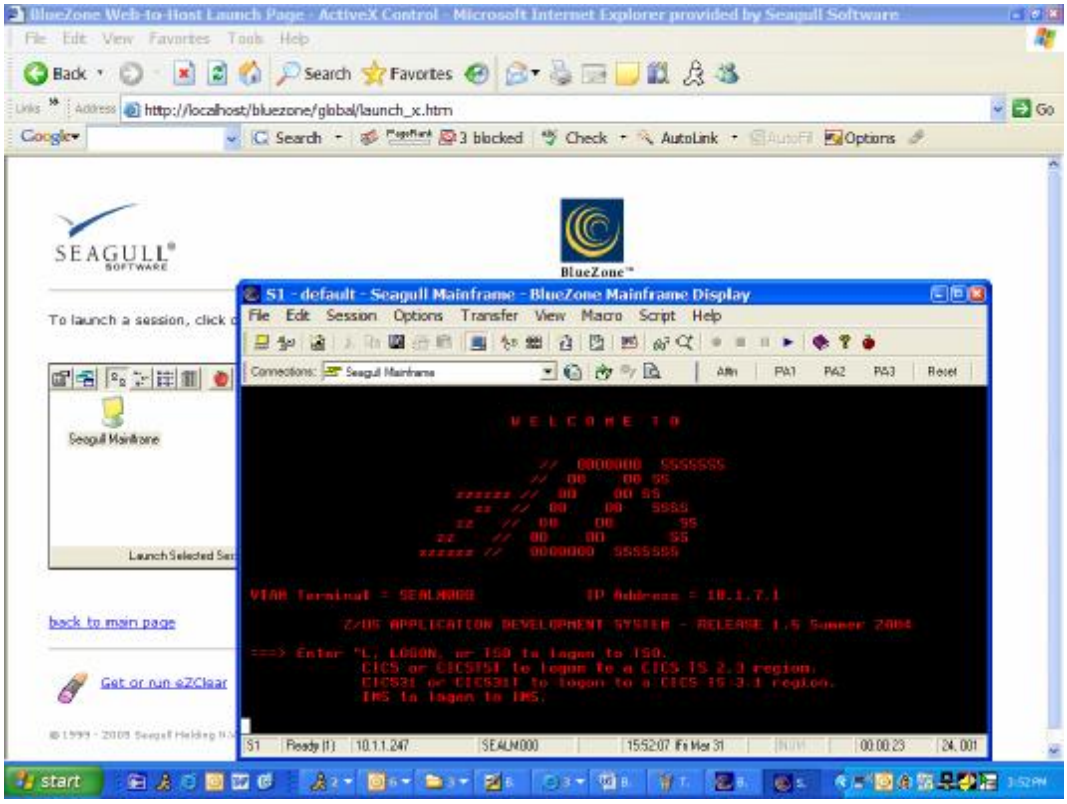
Once of the most powerful features of *BlueZone Web-to-Host* is its unique ability to provide several deployment options. *BlueZone Web-to-Host* offers three different options to deploy the BlueZone clients:

- Standard Web-to-Host Client
- Embedded Web-to-Host Client
- Served Desktop Client

All three options are initiated and installed in the exact same manner. The end user simply clicks on a Web link to start the process.

Standard Web-to-Host Client – This deployment option serves up the BlueZone emulation client which when initiated from the browser, runs as a standard Windows application on the end user's desktop. The BlueZone emulation client runs ***outside*** the browser's memory space and is completely independent of the browser. In fact, once the BlueZone emulation client launches, you can close the browser completely without terminating your host session.

The following example shows the BlueZone Mainframe emulation client launched as a *Standard Web-to-Host Client*. The BlueZone emulation client is "floating" over the browser and the desktop. Underneath the BlueZone emulation client, you can see the Web page and the link (just to the left of the emulator) that launched it.

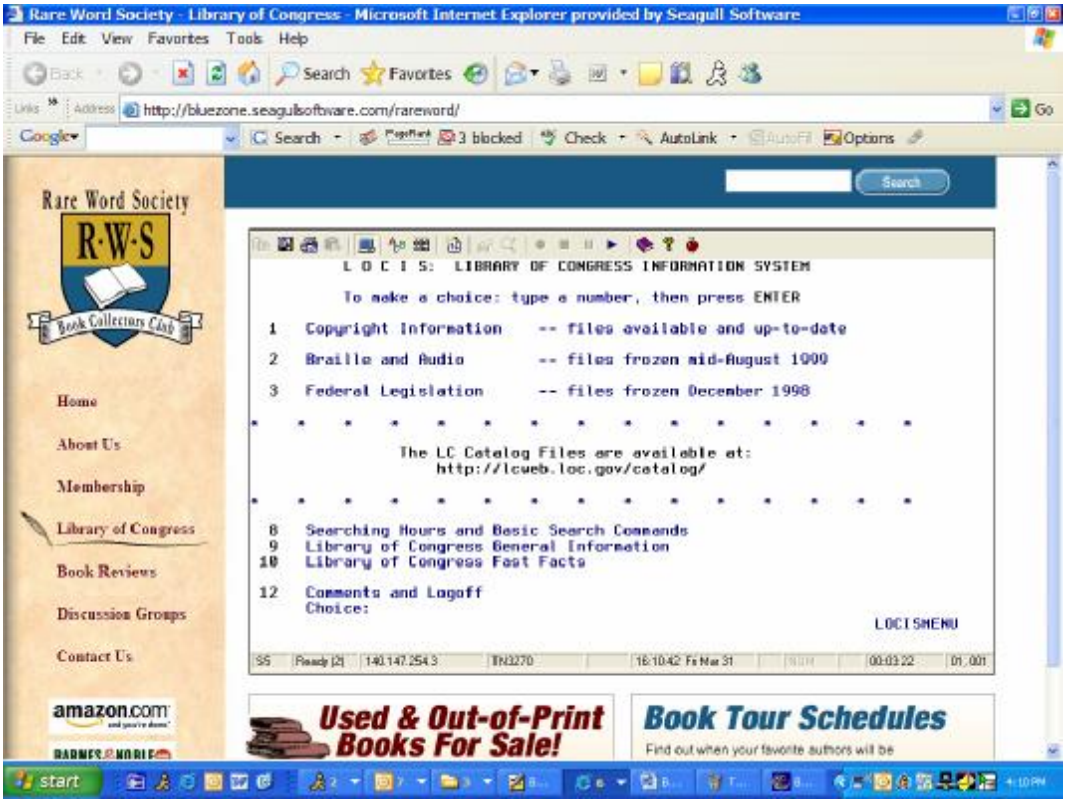


*BlueZone Mainframe Emulator launched as a **Standard Web-to-Host Client***

Embedded Web-to-Host Client – This deployment option brings the power of the HTML Web page into the equation. The BlueZone emulation client launches ***inside*** the browser window, and is embedded either full screen or at a fixed position within the Web page. This position is completely configurable by the BlueZone administrator.

With this option, you can design Web pages that include frames, scripts, text, links, buttons or graphics right on the HTML page in harmony with the embedded BlueZone emulation client.

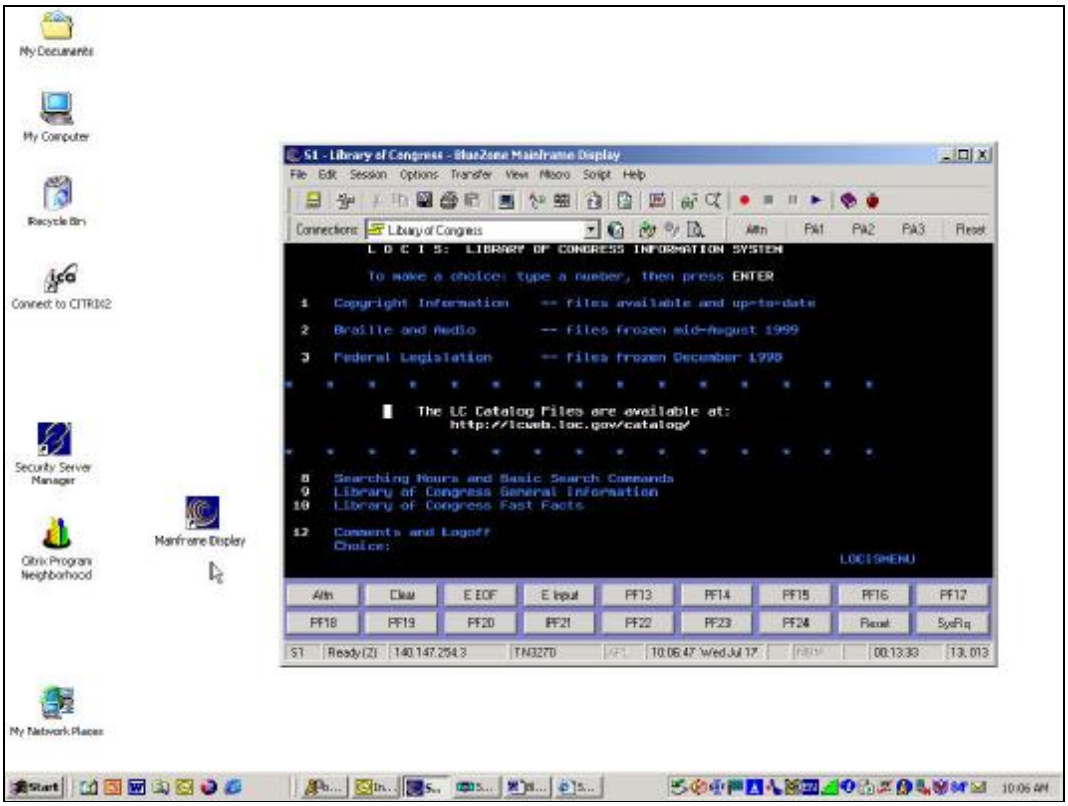
The following example shows the BlueZone emulation client launched as an *Embedded Web-to-Host Client* in an HTML frame. The BlueZone emulation client is part of the Web page. This example shows how buttons can be used to launch scripts.



BlueZone Emulator launched as an ***Embedded Web-to-Host Client***

Served Desktop Client – This deployment option is the only one of its kind in the industry. It brings the benefits and familiarity of a *BlueZone Desktop* client with the convenience and advantages of a Web-to-host client install. This is a great option when you want to maintain an environment your users are most familiar with (Desktop) but want the advantages of a centrally deployed solution. It is initially deployed by the Web server but can be launched from the desktop thereafter. We call the *Served Desktop Client* our "best of both worlds" option.

The following example shows the BlueZone Mainframe emulation client launched as a *Served Desktop Client*. The BlueZone emulation client is "floating" over the desktop. Just to the left of the emulator, you can see the BlueZone desktop icon that was created on the desktop as a result of the initial launch from the Web server. Subsequently, the emulator may be launched just like any standard Windows application but can be updated upon visiting the Web server. The Web server can even notify you that there are updates available for you to download.



BlueZone Mainframe Emulator launched as a ***Served Desktop Client***

Also noteworthy is that the licensing for these options is consistent across the board — no hidden costs for additional deployment options or features.

Administering BlueZone Web-to-Host

BlueZone Web-to-Host is very easy to administer. The nature of *BlueZone Web-to-Host's* design enables a BlueZone administrator to have *BlueZone Web-to-Host* "up and running" in a matter of minutes using the *BlueZone Web-to-Host* Wizard. For environments that are more complex, we developed *Web Manager*, which provides an LDAP interface for creating and managing numerous configurations down to the group or individual user level.

With *Web Manager*, you can provide; completely custom configurations assigned on a group or user basis, the number and types of sessions, specific device or LU assignments, and configuration for hot host backup and disaster recovery. Web Manager is available as a turnkey Active Server Page (ASP) application for Microsoft's IIS Web servers, and platform independent version with the *Java Web Manger*, which will run on any Web server that supports Java. It may be used as-is, or the interface may be customized to employ your company's logos, colors etc. *BlueZone Web-to-Host* when used in conjunction with *Web Manager* is the only Web-to-host product that can provide this dynamic LU/Device name assignment capability. It has won the business at several customer sites where their existing architecture required the display and printer LUs/Devices to be linked together and assigned to specific users — a task where the competing Web-to-Host options fell short.

BlueZone Security Features

All *BlueZone Web-to-Host* clients (mainframe, iSeries, VT and FTP) include Secure Sockets Layer (SSL) support with an addition of SSH support in the VT client. BlueZone's Secure Sockets Layer support provides encryption and authentication to any SSL enabled host. To further secure the connection, *Security Server* was developed to function as an SSL enabled proxy and authentication server providing SSL to clear text proxy, RSA SecurID, and NT Domain Authentication. *Security Server* is crucial in environments where the host does not have native SSL support. It also provides secure proxy for BlueZone FTP file transfers.

In addition, *Security Server* has full support for both server and client side certificate authentication. A built-in facility for creating "self signed" server and client certificates is a standard feature.

BlueZone Web-to-Host Advantages

Web-to-Host is being seriously considered by many companies as a replacement for existing desktop emulators. To successfully transition users from their traditional "fat" client to the new Web based "thin" client technology, end users must be comfortable using the delivered product. That means the emulator must operate with the speed to which they are accustomed, it must be easy to use, it must be customizable, and it must be simple to launch and activate sessions. *BlueZone Web-to-Host* solutions meet all of these user requirements in a manageable, cost effective secure package.

Technology Highlights

- A single license of BlueZone supports connectivity for IBM mainframe (3270), iSeries (5250), UNIX/DEC (VT) and secure File Transfer Protocol (FTP).
- Uses a combination of WIN32, ActiveX, Plugins, and Java for seamless support in Internet Explorer and Netscape.
- Uses basic HTML and Java script to ensure compatibility with all Web servers.
- Uses small, efficient emulation code derived from BlueZone legacy assembler for an unrivaled combination of speed, size, and features.
- A complete *BlueZone Web-to-Host* Web site is provided and can be set up in minutes.
- Configurations are created in an actual BlueZone session instance to confirm that the desired configurations settings are created. Users are then automatically updated the next time they connect.
- Administrators may choose server controlled or user controlled configurations.
- Configurations may be locked from user tampering.
- Commands to control *BlueZone Web-to-Host* are easily generated HTML tags allowing administrators unlimited flexibility to provide customized host access on a global, group, or single user basis.
- Comprehensive scripting capabilities that provide automation for repetitive and labor intensive tasks.
- Version control feature allows additional files to be pushed out to the client desktop for use with *BlueZone Web-to-Host* to include, custom GUIs, scripts, macros, etc. The *BlueZone Web-to-Host* application automatically version checks all of the files and only downloads them when necessary.
- Administrators may assign LU/Device names for display and printer sessions or prompt the users to input the names when the session window appears.

User Interface Features

- Complete 5250e or 3270e display and printer emulation.
- VT52, VT100, VT220, VT340, VT420 display emulation is included as a standard feature.
- Integral GUI regeneration provides configurable; buttons, edit boxes, and colors to give the legacy green screen a more modern Windows look and feel.
- Once *BlueZone Web-to-Host* sessions are running, the browser is free to be used for other applications or closed altogether. (In Standard Web-to-Host Client mode)
- Users may launch multiple display and printer sessions from a single BlueZone session.
- SSL enabled FTP file transfers on a concurrent user basis.
- Users can print to their locally attached printers with their assigned LU/Device names.

Licensing Options

- A Concurrent User licensing option is available for all *BlueZone Web-to-Host* deployment options, and is based on the number of concurrent users. Concurrent User licensing requires the use of a "no cost" Seagull License Manager which is included with *BlueZone Web-to-Host.*
- Additional Concurrent User Licenses can be easily added via a software key that can be sent via an email.
- Per Seat is available with *BlueZone's PC-to-Host* (Desktop) deployment option. Information available upon request.

Security Features

- Secure Sockets Layer (SSL) encryption (up to AES-256 bit). Both SSL v.3 and TLS v.1 are supported.
- SSL Client Certificate Authentication.
- RSA SecurID Token Authentication on the communications port. A BlueZone exclusive feature.

About Seagull Software

Seagull Software specializes in technology that transforms legacy applications into reusable services, helping enterprises achieve exponentially faster IT support for business change, governance and compliance. OurLegaSuite legacy-access platform includes modules for service-oriented integration, GUI, workflow, and terminal emulation technology.

Seagull Software's technology is in use in more than 8,000 Global 2000, mid-market and public sector organizations worldwide, and by more than two million end users. Seagull Software has direct operations in the United States, the Netherlands, Canada, the United Kingdom, France, and Germany, supplemented by distributors who provide LegaSuite in some 30 additional countries.