

## Web Access

### Key Features:

- Thin-client mainframe-based solution
- Two or multi tier architecture
- Simple and easy to deploy and support: no applets and no middleware
- All Assembler, HTML, and JavaScript: no CPU-intensive Java
- Combines mainframe security, IP security, and IP nailing
- As fast, robust, secure, scalable, and dependable as the mainframe it runs on
- Excels with high-volume traffic
- Faster, more scalable, easier to deploy, and consuming less resources than TN3270 or non-VTAM alternatives like CWS, CTG, HOD, HATS, and IMS-Connect
- Supports multi-language and DBCS

## Extend 3270 Apps To Web Browsers

VIRTEL Web Access extends classic 3270 mainframe applications (CICS, IMS, Natural, TSO, etc) interfaces to standard Web browsers instantly.



### Mainframe/Web Protocol Conversion

VIRTEL Web Access is essentially a protocol conversion engine that runs on the mainframe, and that combines a native VTAM interface with an HTTP or SMTP server:

- The VTAM relay handles the VTAM connection between VIRTEL and 3270 applications in synchronous connected mode
- The HTTP or SMTP servers handles the TCP/IP HTTP connection between Web browsers, phones or PDA and VIRTEL in asynchronous disconnected mode

### Simple, Secure, Fast, and Resource Thrifty

VIRTEL Web Access is a thin-client host-based two-tier solution: users simply point their standard browsers to a pre-defined URL to access the mainframe application. VIRTEL is simple and easy to deploy and support because there are no applets, no middleware, and no modification of application code or transaction monitor. A typical installation takes only a couple of hours!

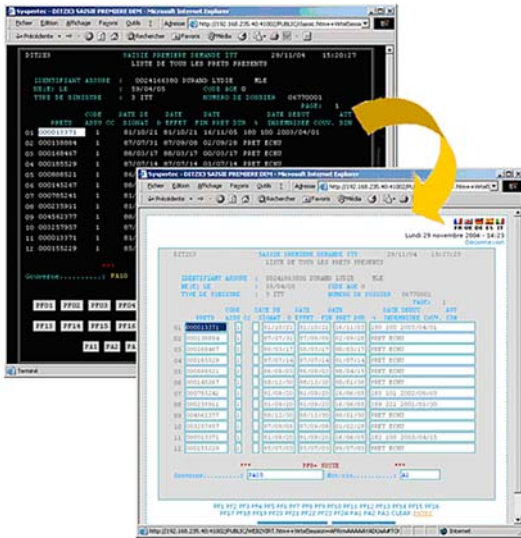
VIRTEL Web Access combines mainframe security (RACF, ACF2, TSS), with IP security (PROXY, SSL, SSO, etc) and IP "nailing" (terminal-id control) through VIRTEL's own security filters and URL controls to secure the Web-to-host access. VIRTEL Web Access uses the AT-TLS component of the z/OS Communication Server to supports the AT-TLS protocol for HTTPS (SSL encryption).

VIRTEL Web Access is fast and resource thrifty because it is developed in Assembler instead of CPU-intensive Java, it manages dynamic LU pools to share each IP session between multiple connected users (Host memory saving), and it is cleverly designed to reduce network traffic, code execution, and resource consumption. Consequently VIRTEL Web Access scales very well and it excels with high-volume traffic.

VIRTEL Web Access is as fast, robust, secure, scalable, and dependable as the mainframe it runs on!

## Classic Mainframe Screen Presentation

The basic presentation templates used by VIRTEL Web Access to guide the protocol conversion between 3270 and Web simply carry over the classic mainframe screen look with light presentation improvements such as font and color changes, and a header or footer carrying the company logo, virtual keyboard and other facilities. Each mainframe screen becomes a separate Web page. There are no functional improvements.



Additionally, VIRTEL Web Access supports automated DBCS (Double Byte Character Set) conversion for languages like Chinese and automated language conversion between English, French, Spanish, Italian, Russian, Chinese, etc.

### TN3270 and Non-VTAM Connector Alternative

VIRTEL Web Access is faster, more scalable, and it consumes fewer resources than **TN3270 or Java-based connectors**, mostly because it uses Assembler instead of Java, and because it

shares each IP session between multiple connected users. It is easier to deploy and support because it is a thin-client host-based two-tier solution.

Because it capitalizes on VTAM, VIRTEL Web Access is simpler, easier to deploy, faster and more scalable than non-VTAM alternatives like **CWS, CTG, HOD, HATS, and IMS-Connect**. IP "nailing" (terminal-id control) attracts IMS-Connect users.

VIRTEL Web Access opens the door for a wide range of application improvements. It is often used as a first step towards Web Modernization (Adding new dynamic Web 2.0 user interface with AJAX technology) and Web Integration (SOA, WOA, WebSphere, Web Services, COMMAREA/XML automated conversion, etc).

VIRTEL Web Access costs less than TN3270 or non-VTAM connectors. It is technically compatible and can coexist with any of them.

### VIRTEL Product Line

VIRTEL Web Suite is a web-enabling product line for legacy mainframe applications, that include all the components needed to integrate the Web technology to legacy mainframe information systems:

- Web Access** ..... Extends mainframe applications and data to the Web instantly
- Web Modernization** ..... Allows adding a new dynamic Web 2.0 user interface with AJAX
- Web Integration** ..... Allows developing bi-directional connections between mainframe and Web applications to integrate them with corporate SOA, Web Oriented Architecture, or WebSphere
- Screen Redesigner** ..... Facilitates the development of presentation conversion templates used by VIRTEL Web Modernization to convert 3270 screens into web pages

### Compatibility

Host .....	MVS, OS/390, z/OS, VSE/ESA, z/VSE
Client .....	Standard JavaScript-capable browser running under any OS
Transaction Server .....	CICS, IMS, TSO, Natural, etc.
Communication Format .....	HTML, XML, XHTML, Excel, Word, Email, AJAX, PDF, etc.
Web Server Type .....	HTTP (default) or SMTP (optional)
Mainframe security .....	RACF, ACF2, TSS, AT-TLS (SSL encryption)
IP security .....	PROXY, SSL, SSO, etc.
Architecture .....	Two-tier or multi-tier, WebSphere Application Server, WebLogic, PHP, SOA, and WOA

[www.syspertec.us](http://www.syspertec.us)

## ABOUT SYSPERTEC

SysperTec has over 20 years of experience with on-the-fly protocol conversion between mainframe and heterogeneous servers and terminals. SysperTec's products are designed with a focus on simplicity, flexibility, strength, performance, cost reduction, and user comfort. They include SYNAPSE - a line of automated IP access processors, and VIRTEL - a line of communication gateways for the Web.

**Canada** ..... 1 866 851 2923  
**France** ..... 01 46 02 60 42  
**United States** ..... 1 866 851 2923  
**Other** ..... 33 1 46 02 60 42

[info@syspertec.us](mailto:info@syspertec.us)

©2009 SysperTec Communication. SysperTec Communication is a registered trademark. Synapse and Virtel are trademarks of SysperTec Communication. All other trademarks mentioned in this story are property of their respective owners.

PO-VWA