

## Web Suite

### Key Features:

- Complete web-enabling solution addresses web access, modernization, and integration requirements with single product
- Adds Web 2.0 technology (AJAX, JavaScript) to mainframe applications
- Makes mainframe applications look and behave like web applications
- Integrates mainframe applications to SOA, WebSphere, and Web Services
- As fast, robust, secure, scalable, and dependable as the mainframe it runs on
- Extends and revitalizes legacy application investment
- A mere fraction of the cost, risk, and time required to redevelop, replace, or rehost

## Product Overview

VIRTEL Web Suite is a simple, fast, powerful, and cost-effective solution to convert the proven business logic of legacy mainframe applications into new and dynamic web applications.

With VIRTEL, legacy mainframe applications look and behave like true web applications at a fraction of the cost, risk and duration or redevelopment, replacement, or rehosting.

### VIRTEL Product Line

VIRTEL Web Suite includes all the components needed to integrate the web technology to existing information systems:

<b>Web Access</b>	Extend mainframe applications as-is and instantly to standard Web browsers
<b>Web Modernization</b>	Add a modern rich Web 2.0 user interface with new AJAX functionality
<b>Web Integration</b>	Open interactive bi-directional connections of any type (XML, Web Services, etc) between mainframe and web applications for SOA, WOA, or WebSphere integration
<b>Screen Redesigner</b>	Workstation-based productivity tool lets mainframe developer control the conversion of 3270 screens to web pages

### Protocol Conversion Engine

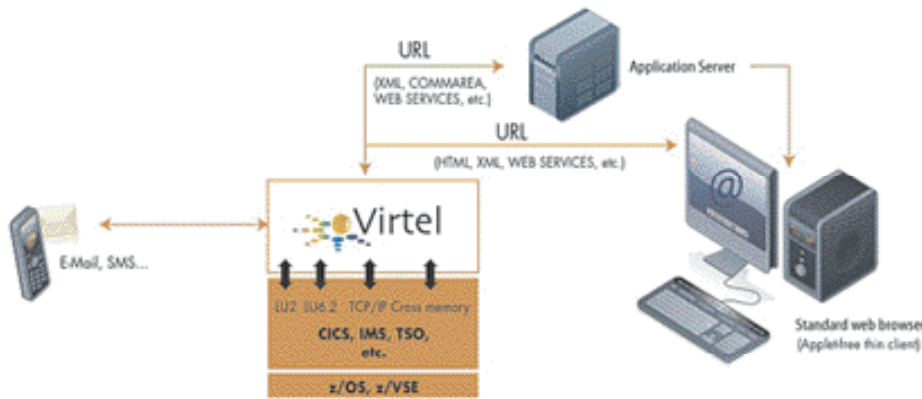
The core of the VIRTEL Web Suite is a protocol conversion engine that runs on the mainframe as a started task or in batch, and that combines a native VTAM interface with an HTTP or SMTP server:

- 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 connection between web browsers and VIRTEL in asynchronous disconnected mode

Compiled HTML templates guide the conversion of 3270 data flows to web pages. REXX-like scenarios parse or convert the exchanged data flow between COBOL/COMMAREA, XML, JSON, HTML, Word, PDF, CSV, COBOL, etc.

### Simple by Design

- Designed for two-tier architecture, yet compatible with multi-tier architecture
- 100% host-based: installation, development, control, and support are centralized
- Thin-client: nothing to install or support on clients
- Simply point a client's standard Web browser to the pre-defined VIRTTEL URL to access the mainframe application through VIRTTEL
- Requires no modification of the application code or transaction server (CICS, IMS, Natural, TSO, etc)
- Simpler to deploy and support than IBM connectors (CTG, CWS, HAT, HOD, or IMS-Connect) and multi-tier client-heavy solutions



### Fast and Efficient by Design

- Clever product design reduces network traffic, code execution, and resource consumption
- Coded in Assembler rather than Java for high performance and low CPU cycle consumption
- Six times faster than competitor product based on TN3270 and Java according to test performed by Italian Bank
- Benchmarked by PSA Peugeot Citroën for sub-second response time with 16,000 concurrent IP sessions per VIRTTEL instance
- Web users connect through VIRTTEL-managed dynamic LU-pools: where 3270 emulation would create 1,000 private IP sessions for 1,000 connected users, VIRTTEL may create only 50 shared IP sessions, which results in significant memory savings

### Strong and Secure by Design

- None of the complexity, bottlenecks, and breakdowns typically associated with multi-tier or client-heavy solutions that combine middleware, applets, API, Web browser code additions, application change, Telnet, CTG, CWS, etc
- As fast, robust, secure, scalable, and dependable as the mainframe it runs on!
- Combines mainframe security (RACF, ACF2, TSS) with IP security (PROXY, SSL, SSO, etc) through VIRTTEL's own security filters and URL controls.
- Supports AT-TLS protocol for HTTPS (SSL encryption) using the AT-TLS component of z/OS Communications Server (z/OS V1R7 and later)
- Supports terminal control through LU "nailing"

#### 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 VIRTTEL - 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

South Africa \* ..... 012 661 2355

Other ..... 33 1 46 02 60 42

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

\* Partner for South Africa



[virtel@eclipse.co.za](mailto:virtel@eclipse.co.za)

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