



# Upgrade from 3270 terminal emulation to thin-client TCP/IP web access

virtel

WEB ACCESS

Replacing legacy 3270 terminal emulation with Virtel Web Access provides a welcome relief from the time consuming and costly obligation to support an ever-growing and ever-changing list of web clients.

## PRODUCT HIGHLIGHTS

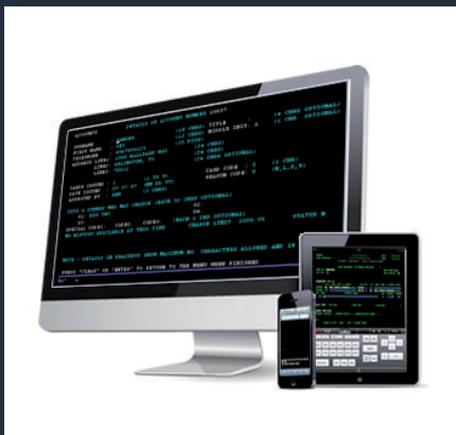
Virtel extends host applications such as CICS, IMS, Natural and TSO to thin-client web browsers over secure IP connections while retaining their familiar screen user interfaces. It is an attractive modernization alternative for aging 3270 terminal emulation installations:

- Nothing to install outside host: no client APIs and no middle-tier servers
- Serves 3270 screens as web pages with 3270 screen ergonomics
- Works instantly with any web client regardless of browser, OS or platform
- Serves virtual 3270 function keys to mobile devices and Apple products
- Includes non-American character set conversion for global deployments
- Eliminates need for VPN through token-based exchange-level authentication
- Reduces costs through centralized installation and support
- Delivers high scalability with superior performance and small footprint
- Ensures longevity through strict reliance upon open standards
- Provides infrastructure required to expose host transactions through GUIs and web services... the first step towards modernization.

## TYPICAL APPLICATIONS

Typical Virtel Web Access applications include:

- **BYOD:** lets staff and contractors use their own devices to access host
- **Mobile access:** extends host applications to Smartphones, PDA, and tablets
- **Apple product deployment:** supports Mac and iPad as alternatives to traditional PC workstations
- **Globalization:** extends host applications to client workstations that use non-American character sets (Europe, China, Japan, Russia, etc.)
- **Virtual Desktop:** eliminates 3270 TE software (APIs) from desktops
- **3270 TE modernization:** simplifies support and reduces cost of 3270 TE.



## ▶ KEY FEATURES :

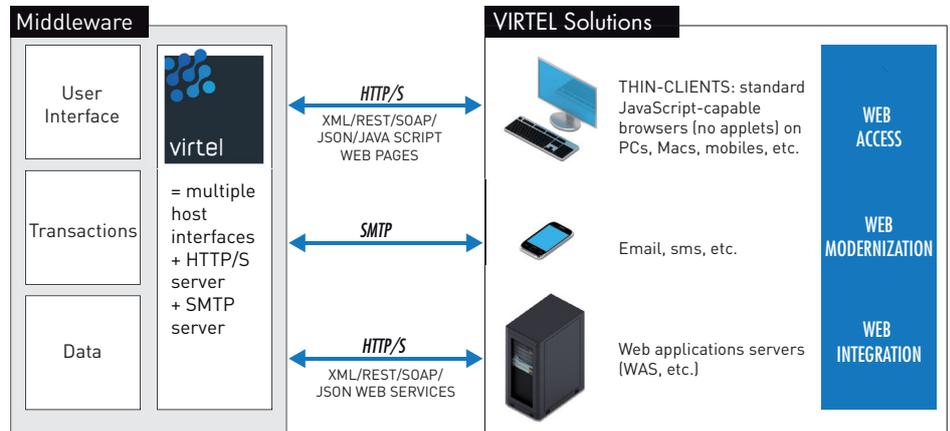
- ❶ Serves 3270 transactions as web pages or web services
- ❷ Nothing to install or support outside the host
- ❸ Instant deployment: point web browsers to a predefined URL
- ❹ Works with any browser or platform (mobile devices, Apple products, Windows...)
- ❺ Concurrently serves different presentations to different users (3270 TE, WUI/GUI, mobile UI)
- ❻ Supports any protocol and format: RESTful, XML, JSON, SOAP, MQ Series, etc.
- ❼ Low impact and low risk: no application or server change
- ❽ High performance and small host footprint for highly scalable solutions
- ❾ Simple host-centric configuration and support for low TCO and early ROI

## DESIGN PRINCIPLES

Virtel's architecture relies upon the following design principles:

- Shorter instruction paths result in superior performance, efficiency, and scalability,
- Fewer components or layers result in simpler and stronger connections,
- Strict use of open standards results in increased solutions longevity.

## ARCHITECTURE



Virtel is an agile middleware to connect host applications to the Web. It interfaces with:

- Host applications via their 3270 screens or COMMAREA
- The Web via HTTP/S, SMTP, or custom IP connections.

Virtel converts host application data into rich web pages and standardized web services.

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## THE MAINFRAME - FRONT AND CENTER

How to keep the mainframe front and center as the platform of choice for core business transaction serving with ever-growing mainframe costs and the need to integrate with web technology? By deploying Virtel's innovative web-enablement and transaction processing solutions.

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