Create **interactive bidirectional connections** that integrate **host and web** applications

virtel
WEB INTEGRATION

When it comes to integrating mainframe and web applications through web services, you won't find a better blend of simplicity, flexibility, performance, low resource consumption, scalability, and low TCO than Virtel.

PRODUCT HIGHLIGHTS

Virtel quickly and simply integrates host applications such as CICS and IMS with server-based technologies through interactive bidirectional connections, typically SOAP, RESTful and MQ services that consume 3270 transactions. Virtel can expose the host transactions either through their legacy screen UI or through a COMMAREA if/when the screen UI is removed:

- No code change when reusing screen UI
- Allows retaining the business logic while eliminating the screen UI
- Supports REST, HTML, XML, SOAP, MQ, PHP, JSON and more
- Fast and simple implementation
- Superior performance and scalability in a small host footprint
- Low Total Cost of Ownership (TCO).

Virtel extends the relevance of – and investment in – legacy host applications.

TYPICAL APPLICATIONS

Typical Virtel Web Integration applications include:

- **Incoming web services**: expose host assets to a WebSphere, Weblogic or other web portal
- **Outgoing web services**: enable CICS and IMS applications to issue outgoing SOAP web service calls with minimal impact on host application code
- **Batch/Web integration**: support interactive bidirectional XML connections between host applications and web
- **PHP integration**: integrate CICS and IMS applications with PHP servers
- **SNA/IP migration**: replace unsupported SNA/3745 connections with TCP/IP
- **Financial EDI**: automate format and protocol conversion (e.g. CBCOM, CB2A, AMEX, EBICS, OSI, non-OSI, EMV, and SEPA) between COBOL host applications (e.g. CICS, IMS) and remote financial institutions
- **Large data transfers**: support exchange of large (over 32KB) data blocks between host and web applications
- **Application interoperability**: enable cooperative processing between host and web applications through interactive bidirectional data exchanges.
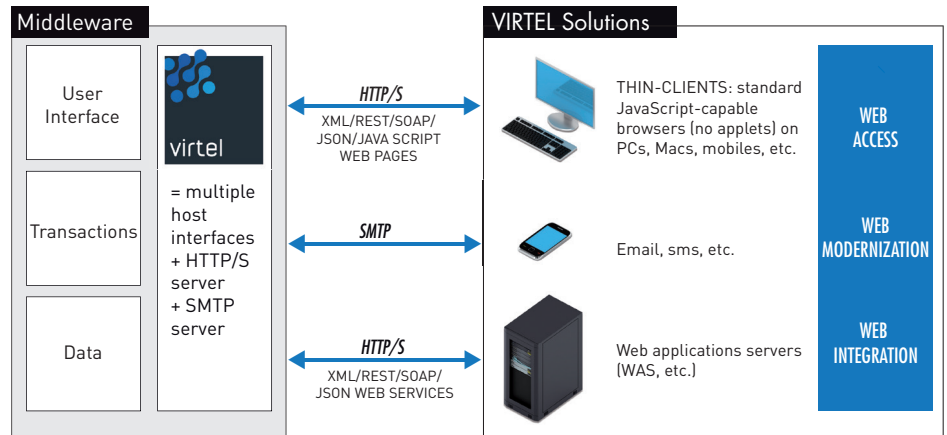
❶ Serves 3270 transactions as web pages or web services

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

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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

Middleware			VIRTEL Solutions	
User Interface	virtel	HTTP/S — XML/REST/SOAP/ JSON/JAVA SCRIPT WEB PAGES	THIN-CLIENTS: standard JavaScript-capable browsers (no applets) on PCs, Macs, mobiles, etc.	WEB ACCESS
Transactions	= multiple host interfaces + HTTP/S server + SMTP server	SMTP	Email, sms, etc.	WEB MODERNIZATION
Data		HTTP/S — XML/REST/SOAP/ JSON WEB SERVICES	Web applications servers (WAS, etc.)	WEB INTEGRATION

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.

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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