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

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.
KEY FEATURES:

1. Serves 3270 transactions as web pages or web services
2. Nothing to install or support outside the host
3. Instant deployment: point web browsers to a predefined URL
4. Works with any browser or platform (mobile devices, Apple products, Windows...)
5. Concurrently serves different presentations to different users (3270 TE, WUI/GUI, mobile UI)
6. Supports any protocol and format: RESTful, XML, JSON, SOAP, MQ Series, etc.
7. Low impact and low risk: no application or server change
8. High performance and small host footprint for highly scalable solutions
9. 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.

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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