HighWire® Software

HighWire™ for Windows version 1

HighWire...the new face of Web applications

HighWire is a standards-based platform for building & deploying Rich Internet Applications – genuine, dynamically instantiated, custom Windows client interfaces for enterprise Web applications. HighWire improves end user productivity, reduces development costs, and improves server performance.

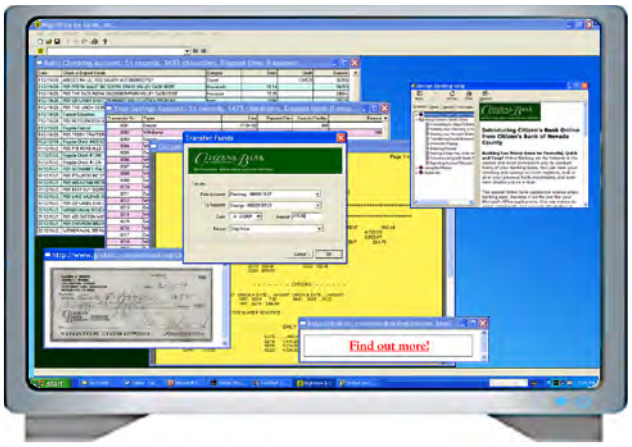
Product Overview

HighWire is an RIA Windows client platform that solves many problems associated with Web browser, Java, terminal, and Citrix development and deployment. HighWire's architecture and powerful features save all stakeholders time and money.

End users benefit from feature-rich, custom Windows applications they know how to use. HighWire applications are geniune Windows applications that complement Microsoft Office & speed-workflow. Productivity improves, and training and support drops.

Developers save development time and money - often completing projects in half the time compared to HTML/Javascript/Ajax projects. There's less techno-sprawl, and no client-side programming. HighWire increases the value of Web apps with an effective interface you design to meet transactional or workflow requirements – without Windows programming.

IT departments benefit from secure, standards-based, Web-start applications. Server and network load is often reduced up to 80 percent due to HighWire's network efficiency. Performance and transaction capacity soars, reducing IT infrastructure costs.



Client implementation is performed server-side via a high-level GUI API. In-house, contract developers, & Independent Software Vendors use HighWire's high-level Remote Graphic Interface Library to implement Windows interfaces directly in enterprise applications using languages and IDE's they already know.

HighWire-enabled enterprise CGI Web applications are Web server compliant, and communicate via HTTP or HTTPS.

Key IT / Developer Features

- Standards-based: utilizes CGI, HTTP/S Web protocols
- High-level Remote Graphic Interface Library
- Use C, C++, Perl – no new languages
- High Internet performance on dial-up, DSL, cable, WiFi
- Centrally store, auto-synch GUI resources, help file, graphics
- Use Microsoft Visual Studio .NET to graphically build your user interface – no client-side coding
- Optionally, use Visual Studio as your Web app IDE

Key IT / Developer Benefits

- Reduce development & operational costs
- Less technology sprawl – no HTML, XML, AJAX or JavaScript
- Typical 80% reduction in server, network, and client load
- Lower security risks
- Dynamic, server-deployed GUI - no custom app installs

Key End User Features

- Genuine Windows client application
- Cut, copy & paste data between other applications
- Print & save documents just like personal productivity applications
- Improved response time and performance
- Performs as well on the road as in the office

Key End User Benefits

- More effective to use than browser apps
- Complements Microsoft Office
- Less training & support
- Enhanced productivity, less admin time
- Better utilization of corporate data

HighWire Software, Inc.
23006 27th Ave SE, Suite 307
Bothell, WA 98021

HighWire. Think outside the browser.

www.highwiresoftware.com
(360) 480-3572

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HighWire for Windows Features

- Controlled by commands and events in the RGIL Server Library (C, C++, PERL) for CGI-based Web applications
- Supports Web protocols including CGI, HTTP/HTTPS over DSL, cable, dialup, wireless, or LAN connections
- Windows resource DLLs created in Microsoft Visual Studio .NET
- Operates on Windows Vista, XP, 2000, NT4, ME, 98

Customizable Windows Objects

- Menubars and context menus
- Toolbars
- Table windows, customizable, up to 4 billion cells
- Text windows, full text control , up to 4 MB per window.
- Custom forms & dialogs for structured data view, data entry, and record updates.
- Graphic image windows, layered, with zoom control
- Tree Windows
- Alerts
- Launch & control Web browser, other Windows apps
- Windows look and feel. You specify title bars (or hide them), and control whether windows can be moved or resized.
- Help systems (Microsoft HHW)

Application-Controlled Features

- Cut, Copy, and Paste data with other applications
- Launch other Windows applications
- Printing support
- Client and Server File Saving Support

You can display up to 64 windows simultaneously. For each window, you can control whether the end user can enter and edit or just display data, enable or disable Cut, Copy, and Paste operations, as well as printing and document saving in server or client sandboxes.

How you Create a HighWire-enabled Web App

1 Design your GUI and create menus, toolbars, and dialogs in Microsoft Visual Studio and save them as resources.

2 Transfer your GUI resource file to your Web server.

3 Write or modify your application using RGIL command and event functions to implement your custom Windows Graphic User Interface.

4 Log on to your HighWire-enabled Web app to use it.

Event Model in a HighWire-enabled Web App

Each HighWire-enabled Web application has event functions supplied in the RGIL Library to make it easy to process end-user events from connected HighWire clients.

For each type of event, you customize the framework by adding your own code:

- Session Events. Your app is notified each time someone attempts to connect via HighWire so you can identify the end user by user ID and password and manage the session.
- Menu and Toolbar Events. When an end user selects a menu item or clicks a toolbar icon, the selected item is returned to your Web app, and you customize how the menu event function responds.
- Dialog Events. Set up dialogs to respond to each control item, or return all data for processing when OK is clicked.
- Text, Tree, Image, HTML, and Table Events. When end users interact with your data windows, your server app is notified by object, item or cell ID so you can process it.
- General Window Events. The server app is notified whenever a window is closed.
- Function Key Events. Each time a function key is pressed, the app is notified so you can perform F-key functions.
- Timer Events. You can set timer events to implement server-push systems, so that data is delivered to the client automatically, without end user intervention.

HighWire's client/server model and API makes it ideally suited for leading app servers including Web servers, Java servers, IBM MVS mainframes; even embedded systems. HighWire's API can be implemented in any language including Java and COBOL. HighWire operates efficiently over any network, including serial & other low bandwidth connections. HighWire for Windows Mobile platforms is under development. If you have an investment in these technologies, please contact us to discuss how HighWire can add value to your enterprise applications.

Web Server / HighWire Windows Client Architecture