

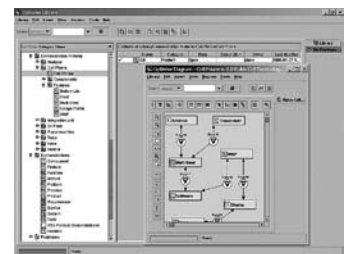
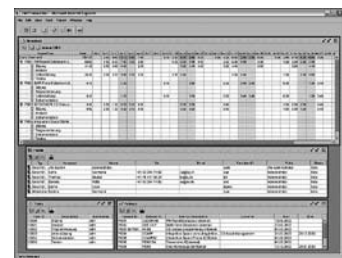


## Java Rich Internet Applications

### Beyond AJAX

**UltraLightClient is a pure Java library to develop Rich Internet Applications (RIA). Using this library, developers can leverage Java's industrial strength advantage over JavaScript and Flex:**

- **Standard Swing:** offers the full power of Swing for web applications, with drag-and-drop, context menus, keyboard-based navigation, multiple windows, accessibility, the entire Swing widget set and more.
- **Server-side Web architecture:** moves the API of the Swing components to the server-side, eliminating all client-server code split hassles. Development is much faster than with plain Swing, HTML or AJAX, and project risk is reduced substantially.
- **No technology mix:** a pure and lean Java library that leverages the standard Java infrastructure, using Swing on the client, supporting all standard J2EE containers and communication options (HTTP, HTTPS, or RMI / IIOP).
- **Unprecedented deployment options:** the same code base can be deployed unaltered as Servlet or EJB, Portlet, or stand-alone for on-/offline apps; on any platform supporting J2EE.
- **Generic client:** the client is deployed only once for any number of applications. This generic client runs both as an applet within a browser or as a Java desktop application using Java Web Start.
- **No runtime licenses:** licensing is per developer seat and costs only 1299 Euro. Deployment on any number of servers or clients for any number of users is free.
- **Superior security:** no application code is executed on the client. Nothing is stored in a browser cache.
- **Highly efficient:** applications typically generate ten times less network traffic than HTML applications and are much more responsive. Low server resources consumption and leverage of J2EE standards guarantee performance and scalability.



## Swing in a Server-Side Web Architecture

Offering a server-side API to the standard Swing components, UltraLightClient is a lean and efficient RIA library for J2EE and J2SE infrastructures.

It enables developers to deliver rich Swing-based graphical user interfaces for server-side J2EE applications. The core idea of UltraLightClient is to run applications on a centrally controlled application server like HTML applications. Only an application-independent Presentation Engine runs on the desktop.

UltraLightClient affects only the presentation layer of an application. It integrates into any J2EE framework and infrastructure used for business object layer, persistence layer, etc. It also integrates into HTML generating presentation frameworks, enabling a mix & match for multi-channel applications.

### Relies entirely on standards:

UltraLightClient is the least proprietary RIA solution on the market. No proprietary IDE or infrastructure is required. Leveraging the standard J2EE / J2SE environment, 50'000 lines of Java are sufficient to deliver the most powerful RIA solution.

### Robust and simple:

By applying the Half-Object + Protocol Design Pattern to Swing, UltraLightClient relies on a proven design that is robust and easy to use. There is no learning curve and no proprietary API. Developers can essentially use Swing as if it were running on the server, avoiding client-server code split hassles, as well as the versioning issues of client-side Java release management.

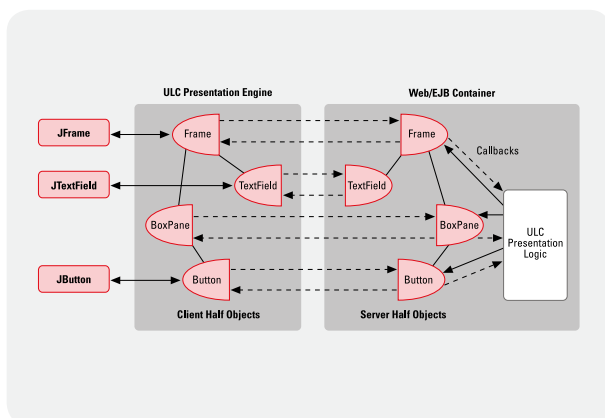
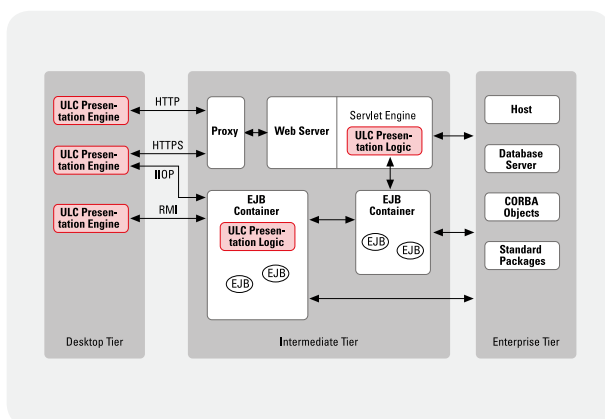
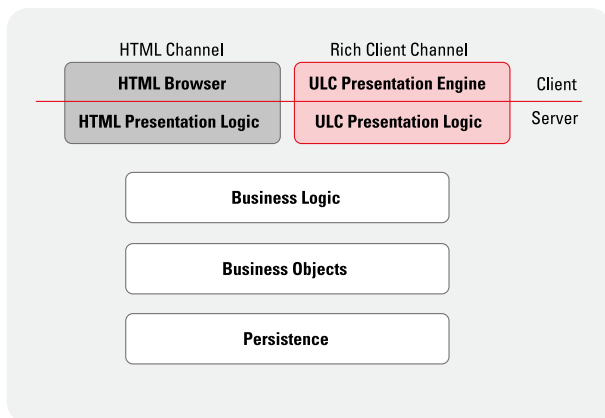
### Proven in large applications:

Numerous applications have been successfully deployed in various industries:

- financial guarantee management at Siemens
- cargo logistics at Navis
- insurance suite for on- and offline use at Münchener Verein

### Case Studies:

[www.canoo.com/ulc/successstories/casestudies.html](http://www.canoo.com/ulc/successstories/casestudies.html)



## ULC Product Set

- RIA component library
- Client / server simulator for development & testing (included with the component library)
- Point and click user interface designer
- Tool for load and performance testing

[www.canoo.com/ulc](http://www.canoo.com/ulc)

Download your free trial today!

**canoo**

web front-end applications