



Development Advantages

The Droplets™ platform enables developers to build and deploy a variety of powerful, real-time applications across the Internet. The Droplets Software Development Kit (SDK) has been designed to simplify all aspects of network programming, and give your remote applications the rich GUI interaction and speed of locally installed software – without transferring a single line of application code to the client.

You do not have to learn any new skills to leverage Droplets. It is based entirely on well-established standards and languages, and relieves developers of the complex aspects of network-based projects, allowing you to focus resources on the core features and functionality of your application. And, Droplets integrates seamlessly with industry standard technologies like Enterprise Java Beans (EJB) and XML-based Web Services.

Simpler Network Programming

Droplets makes the building of distributed applications just as easy as the writing of local software. All networking code and multithreading issues are addressed “out of the box” by Droplets, the need to track per-user session state is eliminated, and the real-time interactivity of the Droplets GUI eradicates the various problems associated with Web’s “Back” button. And since all presentation code stays on the server, there is no need to account in the code for legacy versions of the application client. This saves tremendous time and empowers you to focus your efforts on building robust, real-time software.

A Single, Standard Development Environment

Droplets allows you to work with the single, standard language of your choice (Java or C++), eliminating the need for multi-language development efforts (HTML, JavaScript, JSP and Java, for example). The Droplets API is a straightforward GUI toolkit based on Java’s popular AWT package, allowing you for the first time to write Internet applications with the robust GUI toolkit classes that you have used for years with local software. Development is thus greatly simplified, and developers need no new skills.

Straightforward Testing and Debugging

Debugging distributed applications that leverage Droplets is just like debugging local software. You can use any of the standard tools for debugging Java or C++. Since there is no code on the client, there is no need to separately debug the application front-end, as is required with applets. And the complexity of debugging Web-based applications - in which HTML is generated on the fly by one or more programming languages - is gone.

Built-In Security and Firewall Compatibility

The Droplets Platform also provides built-in security and HTTP tunneling capabilities, sharply reducing developer time and effort. Through simple calls to our API, your applications can access robust platform resources such as SSL encryption, SNMP monitoring and Kerberos authentication. Since zero application code resides on the client machine, the threat of computer virus transmission is eliminated. And Droplets interoperates with all firewall configurations and authenticated proxies - with no additional configuration.

Real-Time Functionality

Droplets provides developers with the tools to build a new generation of online applications that combine the real-time capabilities and GUI Toolkit interface of fat client software with the ubiquity and security of browser-based applications. Among the revolutionary capabilities that Droplets puts in developers’ hands are instant desktop alerts to the remote machine (even when the application is closed) and real-time updates to the GUI with no user intervention.

To find out more about how to leverage your development resources and skills with the Droplets platform, contact Droplets, Inc. today.