

UltraQuest Java Interface

Benefits

- Web access to obtain data from or transfer data to remote locations.
- Convert 4GL XML output into HTML formatted documents using Java's URL access.
- Read and write text I/O streams
- Interact with UNIX System Services to read and write Hierarchical File System files.
- Interact with Web URLs
- Set, pass & retrieve parameter values between an Ultraquest and Java program

Overview

The Java Interface provides the ability to run a Java program from within UltraQuest. A Java program can be used for a number of different purposes. Java is especially good for interacting with the Web and for processing XML formatted data.

JAVA CONCEPTS

Java is an interpreted language that, instead of being compiled into an object file, is compiled into a *class* file. The Java class files are interpreted by a Java Virtual Machine (*JVM*). The JVM can be executed directly under UNIX System Services, or it can be run from another application, such as the UltraQuest 4GL, using the Java Native Interface API (*JNI*).

ULTRAQUEST AND JAVA

The UltraQuest 4GL environment is a powerful database management system that allows you to organize a large quantity of data and use it in a wide variety of ways. The 4GL is an information management tool with built-in analytic features that directly increase your ability to access, control, and use your information to accomplish your business objectives.

The UltraQuest for Java Interface uses the Java Native Interface to create and manage a Java Virtual Machine with the ID *USER* in which it schedules execution of the *main()* methods of Java applications, as directed by the UltraQuest 4GL application. A Java program used with the interface can obtain *main()* parameter values from the UltraQuest 4GL application. When the *main()* method in the Java program is invoked, your 4GL environment is suspended while the Java applications runs, and resumes when the Java application's *main()* method returns to the UltraQuest 4GL environment. You can also transfer large amounts of information from the UltraQuest 4GL to the Java application, and vice versa, via standard MVS files (VFILE and disk).

SOFTWARE REQUIREMENTS

To use the Java Interface, the following software must be installed:

- OS/390 Version 1 Release 1 or later. OS/390 Version 2 Release 6 preferred. Or, z/OS Version 1 Release 1 or later
- UNIX System Services (USS) must be enabled
- IBM Language Environment Version 1.5 or later
- Java for OS/390 Version 1.1 or later
- NOMAD Version 7.50 or UltraQuest Applications Version 4.00



To obtain more information, please contact Select Business Solutions at www.selectbs.com or 1-888-472-7347.