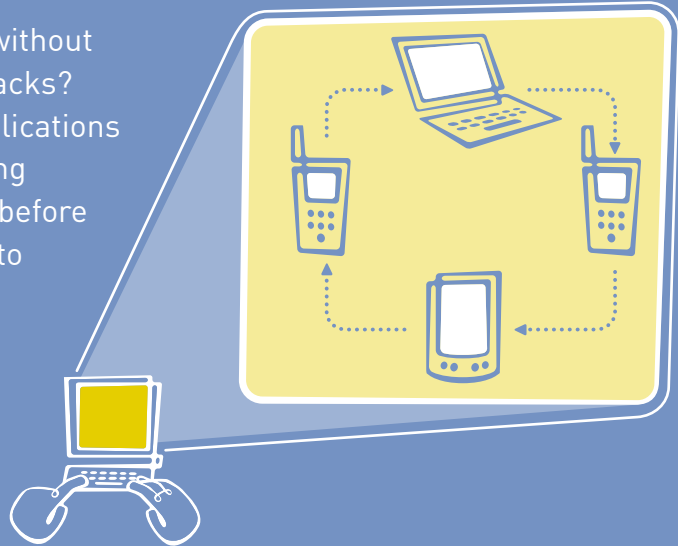


IMPRONTO SIMULATOR

OVERVIEW

Do you want to test Bluetooth™ applications without investing in costly hardware and Bluetooth stacks? Rococo's Impronto™ Simulator runs Java applications in a simulated Bluetooth environment, allowing developers to test and configure applications before deploying them on Bluetooth devices. Impronto Simulator is 100% Java and supports the standard Java APIs for Bluetooth Wireless Technology (JABWT).



BENEFITS

- Simplifies testing
- Reduces application development time
- Lowers development costs
- Supports both Java 2 Platform, Micro Edition (J2ME) and Java 2 Platform, Standard Edition (J2SE)
- Works with any standard implementation of J2ME or J2SE
- Works with any JABWT-compliant implementation
- 100% Pure Java

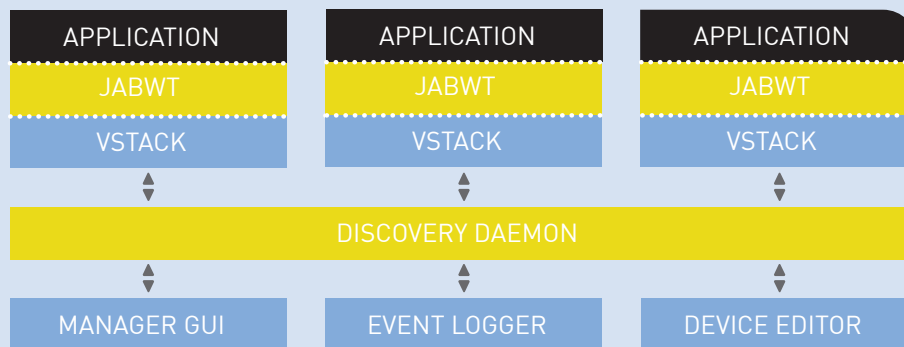
FEATURES

- Simulates a complete JABWT environment without Bluetooth hardware or stacks
- Provides full support for L2CAP, RFCOMM, SDP and OBEX
- Runs actual application code in simulated mode
- Provides management GUI for tracking and controlling run-time behavior of devices and networks
- Includes configuration GUI for
 - + Creating virtual devices
 - + Controlling configurable aspects of virtual devices
- Provides an XML-based simulator language to configure devices for simulation
- Has full logging capability for Bluetooth events
 - + Captures events for specific devices
 - + Sets levels of data to be captured
 - + Filters based on type of event
- Includes industry-leading WebSphere Micro Edition (J9) from IBM™
- Supports point-to-point and multipoint communication
- Includes additional helper classes to further simplify Bluetooth application development
- Includes BCC and security for 1.0

IMPRONTO SIMULATOR

IMPRONTO SIMULATOR ARCHITECTURE

The VStack implements a virtual Bluetooth stack while the Discovery Daemon allows devices to locate other devices. When an application runs in simulated mode the VStack processes all Bluetooth calls and routes them to the VStack of the appropriate device. The Manager GUI allows developers to monitor the behaviour of the simulated devices and the Event logger logs all Bluetooth events. The Device Editor is used to define static properties of devices.



PLATFORMS AND HARDWARE

Impronto Simulator works with any standard J2SE or J2ME platform. For J2SE, Impronto Simulator has been tested on Red Hat Linux and Windows 2000. For J2ME, it has been tested on Palm OS and a Windows 2000 development environment.

- J2ME-CLDC (IBM's WebSphere Micro Environment (J9) included)
- J2SE-JDK version 1.3.1
- Supports POSE and Sun's[™] Wireless Toolkit

COMMENTS

"Impronto Simulator is a great tool for newcomers to Java Bluetooth APIs. Because Rococo implemented standard APIs into their product, your code can run on other compliant platforms with minimal modifications. This tool is a completely self-contained Bluetooth environment, so you can create virtual piconets within your workstation as if you were working with actual Bluetooth devices. This tool is perfect for the initial stages of the development cycle, where users can develop their Java Bluetooth apps within the simulator's environment."

- Bruce Hopkins, Java Consultant



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