Java Bluetooth Stack
Requirements definition

Version 1.0

Revision History

Date	Version	Description	Author
2003-11-30	0.1	Initial Draft	Tomislav Sečen
2003-12-11	0.2	Minor changes	Tomislav Sečen
2004-01-13	1.0	Final version	Tomislav Sečen

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1. Introduction

1.1 Purpose of this document

This document is intended to give a list of requirements for the Java Bluetooth Stack (JBS) project.

1.2 Intended Audience

Project supervisor, customer.

1.3 Scope

Scope is to give basic information about the requirements for the project.

1.4 Definitions and acronyms

1.4.1 Definitions

Keyword	Definitions
Java	The programming language
Bluetooth	Technology for wireless communication
Bluetooth stack	Layered Bluetooth architecture

1.4.2 Acronyms and abbreviations

Acronym or abbreviation	Definitions
J2ME	Java 2 Micro Edition
JSR	Java Specification Request
L2CAP	Logical Link Control and Adaptation Protocol
SDP	Service Discovery Protocol
RFCOMM	Serial communication protocol
HCI	Host Controller Interface
OBEX	Object EXchange protocol

1.5 References

Java APIs for Bluetooth Wireless Technology (JSR-82), specification version 1.0a, 2002.

2. Requirements

The main requirement is to extend the functionality of the existing Bluetooth stack code base to the full JSR-82 compliance.

To do that, we need to implement following software stack layers:

Identity	Priority	Description	Source
I		**Implementation**	
I-1	1	**Support for RFCOMM** Definition: The implementation should fully support RFCOMM protocol. Motivation: The user may want to use Serial port profile as a reliable data stream between two devices.	Customer
I-2	1	**Support for OBEX** Definition: The implementation should fully support OBEX protocol. Motivation: The user may want to use Object Push profile or Synchronization profile.	Customer
I-3	1	**Support for security** Definition: The implementation should fully support Bluetooth security measures (authentication, data transfer encryption and authentication). Motivation: The user may want to use secure file transfer over OBEX or over RFCOMM using GAP.	Customer