



Java Bluetooth Stack Final Project Report

Version 1.0

Java Bluetooth Stack	Version: 1.0
Final Project Report	Date: 2004-01-15

Revision History

Date	Version	Description	Author
2004-01-15	1.0	Final	Tomislav Sečen

Doc. No.:

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1. Introduction

1.1 Purpose of this document

Final report for Java Bluetooth Stack (JBS) project.

1.2 Intended Audience

Project supervisors, customer.

1.3 Scope

Milestones and work hours spent on the project.

1.4 Definitions and acronyms

1.4.1 Definitions

Keyword	Definitions
Java	The programming language
Bluetooth	Wireless communication technology
Eclipse	Open-source development environment, formerly IBM WebSphere

1.4.2 Acronyms and abbreviations

Acronym or abbreviation	Definitions
J2ME	Java 2 Micro Edition
UML	Unified Modeling Language
JABWT	Java APIs for Bluetooth wireless technology
CLDC	Connected limited Device Configuration
JSR-82	Java Specification Request 000082 – Java APIs for Bluetooth wireless technology

2. Organization

2.1 Project Manager

Tomislav Sečen

2.2 Project Group

Name	Responsibility
Marko Đurić	Testing/Documentation
Sanjin Goglia	Implementation/Integration
Dražen Njerš	Implementation/Integration
Tomislav Sečen	Project Manager/SCM/Design/Integration

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2.3 Customer
Igor Čavrak igor.cavrak@fer.hr

3. Milestones

Id	Milestone Description	Finished week			Metr	Rem	
		Plan	Forecast				Actual
			Week	+/-			
1	Project description & plan completed	46	46	0	46	0	
2	Preliminary project design description	48	48	0	48	0	
3	Final project design description	50	50	0	50	0	
4	Documentation outline	50	50	0	50	0	
5	Coding complete	2	2	1	3	-1 rem-0	
6	Documentation complete	2	2	0	0	0	
7	Test plan	2	2	0	0	0	
8	Product release	3	3	0	0	0	

3.1 Remarks

Remark Id	Description
rem-0	finished later because of hardware problems

4. Project Results

4.1 Requirements

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

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4.1.1 Requirement Compliance Matrix

Id	Requirement Description	completed	Rem
I-1	Support for RFCOMM	yes	rem-0
I-2	Support for OBEX	yes	rem-0
I-3	Support for security	yes	rem-1

Completed: Yes (completely implemented)

No (not implemented at all)

Partially (partially implemented, more description under Remarks subsection)

Unknown (completion status not known)

Dropped (requirement was dropped during the course of the project)

4.1.2 Requirements Compliance Summary



Total number of requirements	3
Number of requirements implemented	3
Requirements partially fulfilled	0
Requirements not fulfilled	0
Requirements dropped	0

4.1.3 Remarks

Remark Id	Description
rem-0	tested only through Java sockets
rem-1	testing incomplete due to firmware differences between Ericsson Bluetooth modules

4.2 Work Products and Deliverables

To	Output	Planned week	Delivered week	Rem
Project web	Project description	46	46	
Project web	Requirements definition	48	49	
Project web	Project design	49	47	
Supervisor	Test plan document	2	2	
Customer	Final product delivery (presentation, source code, user documentation)	3	3	
Project web	Final project report	2	2	rem-1

4.2.1 Remarks

Remark Id	Description
rem-1	error, it was actually delivered in week three, but final doc version was already released, no corrections possible

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5. Project Experiences

5.1 Positive Experiences

Java and Bluetooth knowledge expansion, using Eclipse, CVS, Java Communications API.

5.2 Improvement Possibilities

In more time members would get more friendly with hardware / final product tested in real life as a result.

6. Financials

6.1 Project Cost Summary

Planned Cost	\$0
Actual Cost	\$400+

6.2 Work per Member

Member	W47	W48	W49	W50	W51	W52	W1	W2	W3	Total
Marko Đurić	16	15	25	48	2	0	10	75	50	241
Sanjin Goglia	15	10	32	68	10	1	7	57	28	228
Dražen Njerš	12	3	35	16	15	0,5	1	48	31	161,5
Tomislav Sečen	25	23	18	24	12	0	15	52	68	237
Total	68	51	110	156	39	1,5	33	232	177	867,5