

**PERFORMANCE EVALUATION OF LOCATION SENSITIVE HANDOFF
USING POSITIONING METHOD**



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Terima kasih.

Yang benar,

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TABLE OF CONTENTS

	Page
ACKNOWLEDGEMENT	i
TABLE OF CONTENTS	ii
LIST OF FIGURES	iv
LIST OF TABLES	v
LIST OF GRAPHS	v
SYMBOLS AND ABBREVIATIONS	vi
ABSTRACT	ix
CHAPTER 1 INTRODUCTION	
1.1 Background	3
1.2 Scope of Work	4
1.3 Objectives	5
1.4 Methodology	5
CHAPTER 2 LITERATURE REVIEW	
2.1 Introduction	6
2.2 Universal Mobile Telecommunication System (UMTS)	
2.2.1 UMTS architecture	6
2.3 Handoff/Handover	
2.3.1 Handoff control	9
2.3.2 Soft handoff in WCDMA	11
2.3.3 Soft handoff algorithm	12
2.3.4 Soft handoff calculation	12

2.4 Location Sensitive Handoff	12
2.4.1 Optimum threshold for location sensitive handoff	14
2.5 Location Technology Technique	15
2.6 OTDOA Mechanism	15
2.6.1 MS location calculation using OTDOA	17
CHAPTER 3 SIMULATION DEVELOPMENT	
3.1 Introduction	19
3.2 Topology Model and Mobility	21
3.3 Propagation Model	22
3.4 Handoff Algorithm	22
3.4.1 Handoff measurement	24
3.4.2 MS velocity	24
3.4.3 Movement and location update	24
3.4.4 Losses and E_c/I_o calculation	24
3.4.5 Threshold value	24
3.4.6 Location sensitive handoff algorithm	24
3.4.7 Start location sensitive handoff	25
3.5 Simulation Model for OTDOA	25
3.5.1 MS location calculation	27
3.5.2 Location precision calculation	30
CHAPTER 4 RESULTS AND ANALYSIS	31
CHAPTER 5 CONCLUSIONS	37
REFERENCES	39
APPENDICES	41

ABSTRACT

Handoff is one of the most important processes in mobile communication system. Radio resource management planning effectiveness depends on the successfulness of handoff process in maintaining the connection. With the help of location information, handoff process can be optimize and increase the intelligent of radio resource management. This project investigate the performance of handoff process with the help of location information which is called Location-Sensitive Handoff (L-SH) using the location positioning method. Location positioning method chosen in L-SH is Observed-Time Difference of Arrival (OTDOA). Simulation model is developed and done using Matlab[®] in analyzing and comparing the performance of conventional handoff with L-SH. Handoff performance is analyze based on the number of handoff occurred with respect to user mobility, fading and propagation effect. Result from simulation shows that L-SH is more efficient as compare to conventional handoff and L-SH performance is less affected by fading and propagation. New algorithm is also proposed in order to enhance handoff process.