

LIST OF TABLES

Table 2.1 Key Equipment Related to DA2GC Network	18
Table 2.2 The Oxygen Absorption Loss Table	21
Table 2.3 Main Parameter for Ground Station of DA2GC	23
Table 2.4 Main Parameter for Aircraft Station of DA2GC	23
Table 2.5 DA2GC Development Overseas	24
Table 2.6 Benchmarks Regulation of DA2GC.....	25
Table 2.7 ITU-R M.2282-0 Summaries	26
Table 2.8 Service Model of LTE Capacity Dimensioning.....	27
Table 2.9 Traffic Model of LTE Capacity Dimensioning.....	28
Table 2.10 Peak to Average Ratio for Every Scenario	28
Table 3.1 Benchmark Spectrum of DA2GC	38
Table 3.2 Candidates Spectrum of DA2GC for Indonesia.....	39
Table 3.3 Consideration for Each of Spectrum	40
Table 3.4 List of Airports for Research.....	43
Table 3.5 The Number of Aircraft for 7 Major Indonesian Airlines.....	43
Table 3.6 Technical Requirement	43
Table 3.7 Number of Estimations Passanger Based on Number of Aircraft.....	44
Table 3.8 User Estimation of DA2GC User.....	45
Table 3.9 DA2GC Stakeholders Overview	46
Table 4.1 SINR 1,9 GHz Distribution.....	47
Table 4.2 Throughput per Session Calculation	48
Table 4.3 Single-User Throughput Calculation	48
Table 4.4 Network IP Layer Throughput	49
Table 4.5 Network MAC Layer Throughput	50
Table 4.6 Number of Sites.....	50
Table 4.7 DA2GC Technical Parameters (Downlink)	54
Table 4.8 DA2GC Technical Parameters (Uplink)	54
Table 4.9 Radius Cell for Each Transmitter Output Power of Ground Station	55
Table 4.10 Result for Tx Power	55
Table 4.11 DA2GC Investment Cost or CAPEX	58

Table 4.12 DA2GC Running Cost or OPEX.....	59
Table 4.13 HDLP and HDPP Value Based on Kind of Spectrum and Zone	60
Table 4.14 lb and lp Value Based on Types of Frequency Use For.....	60
Table 4.15 ISR Calculation For The Research Area	60
Table 4.16 Free IFC Access Revenue	61
Table 4.17 Charge IFC Access Revenue.....	62
Table 4.18 IFE Advertising Revenue	62
Table 4.19 DA2GC Baseline Business Feasibility Assumption	63
Table 4.20 DA2GC Net Present Value	64
Table 4.21 Net Cash Flow from Remaining Investment of DA2GC Deployment	66
Table 4.22 DA2GC Baseline Business Feasibility Result	67
Table 4.23 Parameters with Baseline	67
Table 4.24 Comparison between baseline and minimum number user.....	69
Table 4.25 Unbundled ticket percentage.....	71
Table 4.26 Regulation impact analysis table.....	72