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ii

CONTENTS

A FRAMEWORK FOR GREEN PRODUCT ADOPTION BY INDIA CONSUMERS YSHNU MAN, DR. RUMT AGAWAM, DR. RUMT AGAWAM, DR. RUMT AGAWAM, DR. RUMTA SHARMAM SA SHARMAD & RUMA, A RAGAWAM, R. RUMTA SHARMAM, DR. RUMTA SHARMAM SA AGAWAM, RUMAND, RUMTA AGAWAM, RUMAND,	Sr. No.	TITLE & NAME OF THE AUTHOR (S)	Page No.		
USENU NATH, DR. MAUX AGRAMAL, DR. ADITYA GAUTAK & DR. VINAY SHARKA 8 PROBLEMS IN INPLEMENTING COMMERCE IN OMANI 8 M. M. FECKMAR AHMAD & DR. A. M. AGRAWAL 8 INTRICUE ARTORNANCE (PD AND INFORMATION TECHNOLOGY CONTROL SYSTEM (ITCS) IN NIGERIN BANIS 12 MANSOR LUBARAH KWANBO 16 AN EXTENDED TECHNOLOGY ACCEPTANCE MODEL TO UNDERSTAND ONLINE SHOPPING 16 AN EXTENDED TECHNOLOGY ACCEPTANCE MODEL TO UNDERSTAND ONLINE SHOPPING 16 DAR. GYD. ANDUALKM MARIN ANNAL MAR B. DR. ASSHE UR REHMAN 20 DAR. GYD. ANDUALKM MARIN 20 DAR. GYD. THE THEORY AND PRACTICE OF GOVERNMENT CONTRACTING IN THE SOUTH AFRICAN PUBLIC HEALTH SYSTEM 29 INDUALKM MARING DAYLED BAYLE 21 MARCT OF THE THEORY AND PRACTICE OF GOVERNMENT CONTRACTING IN THE SOUTH AFRICAN PUBLIC HEALTH SYSTEM 25 LOWARD MYCHORM DA SYNEE BAYLE 23 LUMANK MARING DAYLED BAYLET 24 DYD ARRONG OF COMPREHENSIVE INCOMME AND SYNEE BAYLET 25 LUMANK MARING DAYLED BAYLET 25 LUMANK MARING DAN GRACUTTON OF	1.		1		
M. TEREMAR ARMADE QUE A. M. AGRAWAL - J. FINANCUL PERFORMANCE (P) AND INFORMATION TECHNOLOGY CONTROL SYSTEM (ITCS) IN NIGERIN BANKS 12 MANSUR (UBARAH KYANBO) 12 MANSUR (UBARAH KYANBO) 16 MANSUR (UBARAH KYANBO) 16 MA EXTENDED TECHNOLOGY ACCEPTANCE MODEL TO UNDERSTAND ONLINE SHOPPING 16 MAINTIME SURVEY ON FIVE TO FOURIST TRAFFIC HOST COMMUNITIES TOWARDS TOURISM ACTIVITIES: A CASE STUDY OF 21 ETHIOPIA DR. GFT ANDUALEM MINU 6 CHANNING SCENARIO OF EXPORT ORIENTED CERAMIC TABLEWARE INDUSTRY OF BANGLADESH AND MARKETING STRATEGY 32 COMPARISON OF COMPRETING ORIENTED CERAMIC TABLEWARE INDUSTRY OF BANGLADESH AND MARKETING STRATEGY 32 COMPARISON OF COMPRETING INTERD CERAMIC TABLEWARE INDUSTRY OF BANGLADESH AND MARKETING STRATEGY 32 INMUNCTO OF COMPRETING INTERD CERAMIC TABLEWARE 32 COMPARISON FECONER INTERD CERAMIC TABLEWARE 34 INMUNCTON TORA BOR, NATHOR ANTER INTERD CONTRACTING IN THE SOUTH AFRICAN PUBLIC HEALTH SYSTEM 32 INMUNCTING TORA BOR, NATHOR ANTER IN CONTRACTING THE VEALUATING OF FIRM PERFORMANCE 45 ROWARD AD R. MAINTAN AD STRATE AND ANTARY SCHOOL STUDENTS' PERFORMANCE 45 ROWARD AD R. MAINAL ALLAWAR, MARKETING STRATINAH DISTRICT - A HOLISTIC A		VISHNU NATH, DR. RAJAT AGRAWAL, DR. ADITYA GAUTAM & DR. VINAY SHARMA	_		
3. IPAARCIAL PERFORMANCE (PP) AND INFORMATION TECHNOLOGY CONTROL SYSTEM (ITCS) IN NIGERIN BANKS 12 MANSUE INJERAM YUMAYO 15 MANSUE INJEKAM YUMAYO 16 MUTHAMADA RUMAYO, INJEKATOR OF TO UNDERSTAND ONLINE SHOPPING 16 MUTHAMADA RUMAYO, INJEKATOR INJEKAMAN 17 S. AN ATTTUDE SURVEY OF FIVE TOP TOURIST TRAFFIC HOST COMMUNITIES TOWARDS TOURISM ACTIVITIES: A CASE STUDY OF C. CHAN ANTIVUES SURVEY OF FIVE TOP TOURIST TRAFFIC HOST COMMUNITIES TOWARDS TOURISM ACTIVITIES: A CASE STUDY OF C. CHAN AND SCENARIO OF EXPORT ORIENTED CERAMIC TABLEWARE INDUSTRY OF BANGLADESH AND MARKETING STRATEGY C. CHANGING SCENARIO OF GOVERNMENT CONTRACTING IN THE SOUTH AFRICAN PUBLIC HEALTH SYSTEM LUJUAMUE TORIZANA B. MANMADOSE ANE DE AVIT 39 LUJUAMUE TORIZANA B. MAROCE AND REAVIT 39 LUJUAMUE TORIZANA B. MAROCE AND REAVIT SUMMISSANDA S. COMPARISON OF COMPREHENSIVE INCOME AND HET INCOME IN EVALUATING OF FIRM PERFORMANCE A. COMPARISON OF COMPREHENSIVE INCOME AND HET INCOME IN EVALUATING OF FIRM PERFORMANCE A. COMPARISON OF COMPREHENSIVE INCOME AND HET INCOME IN EVALUATING OF FIRM PERFORMANCE A. COMPARISON OF COMPREHENSIVE INCOME AND HET INCOME IN EVALUATING OF FIRM PERFORMANCE <td< td=""><td>2.</td><td colspan="3">OBLEMS IN IMPLEMENTING E-COMMERCE IN OMAN</td></td<>	2 .	OBLEMS IN IMPLEMENTING E-COMMERCE IN OMAN			
4. AN EXTENDED TECHNOLOGY ACCEPTANCE MODEL TO UNDERSTAND ONLINE SHOPPING 5. AN ATTITUDE SURVEY ON FIVE TOP TOURIST TRAFFIC HOST COMMUNITIES TOWARDS TOURISM ACTIVITIES: A CASE STUDY OF 21 ETHIOPIA 7. MARATTRUDE SURVEY ON FIVE TOP TOURIST TRAFFIC HOST COMMUNITIES TOWARDS TOURISM ACTIVITIES: A CASE STUDY OF 21 ETHIOPIA 7. MARATTRUDE SURVEY ON FIVE TOP TOURIST TRAFFIC HOST COMMUNITIES TOWARDS TOURISM ACTIVITIES: A CASE STUDY OF 21 CHANGING SCHARIO OF EXPORT ORIENTED CERAMIC TABLEWARE INDUSTRY OF BANGLADESH AND MARKETING STRATEGY 70 MARATO FINE THEORY AND PRACTICE OF GOVERNMENT CONTRACTING IN THE SOUTH AFRICAN PUBLIC HEALTH SYSTEM 100AMILE TORYCEN AND PRACTICE OF GOVERNMENT CONTRACTING IN THE SOUTH AFRICAN PUBLIC HEALTH SYSTEM 100AMILE TORYCEN QUALITY ON STREACTOR OF CUSTOMERS OF TELECOM SECTORS IN CHENNAL 5. SINDARM, MARINE ALARTEL SALVESTAVE SIVENING SAMARLI 10. EFFECT OF COMPREHENSIVE INCOME AND NET INCOME IN EVALUATING OF FIRM PERFORMANCE 5. SINDARM, MARINE ALARTEL SALVESTAVE SIVENING SAMARLI 1. SINDARMAN B OR. N. THAMAN, MARING ALARTELY & SIAMINE SHAMEL 1. SINDARMAN B OR. N. THAMAN, MARING ALARTELY & SIAMINE SHAMEL 1. SINDARMAN B OR. N. THAMAN AND ANG. TY TOR 1. SINDARMAN B OR. N. THAMAN AND ANG. TY TOR 1. SINDARMAN B OR. N. THAMAN AND ANG. TY TOR 1. SINDARMAN B OR. N. THAMAN AND ANG. TY TOR 1. SINDARMAN B OR. N. THAMAN AND ANG. TY TOR 1. SINDARMAN B OR. N. THAMAN AND ANG. TY TOR 1. SINDARMAN B OR N. THAMAN AND ANG. TY TOR 1. SINDARMAN B OR N. THAMANGAN AND ANG. SINDARMAN AND ANG. TY TOR 1. SINDARMAN B OR N. THAMAN AND ANG. TY TOR 1. SINDARMAN B OR N. THAMAN AND ANG. TY TOR 1. SINDARMAN B OR N. THAMAN AND ANG. TY TOR 1. SINDARMAN AND ANG. SINDARMAN AND ANG. TY TOR 1. SINDARMAN B OR N. THAMAN AND ANG. TY TOR 1. SINDARMAN B OR N. THAMAN AND ANG. TY TOR THAN SHRINKING THE PROPHT - A. GLOBAL ORGANISED RETAIL 1. SINDARMAN B OR N. THANGYNE MARATAN AND ANG. SINDAN 1. SINTATION OF INV	3.	FINANCIAL PERFORMANCE (FP) AND INFORMATION TECHNOLOGY CONTROL SYSTEM (ITCS) IN NIGERIN BANKS			
S. AN ATTTUDE SURVEY ON FIVE TOP TOURIST TRAFFIC HOST COMMUNITIES TOWARDS TOURISM ACTIVITIES: A CASE STUDY OF 21 DR. GETRE ANDUALEM MARU CREMENDUATION OF EXPORT ORIENTED CERAMIC TABLEWARE INDUSTRY OF BANGLADESH AND MARKETING STRATEGY 32 CHANGING SCHARLO OF EXPORT ORIENTED CERAMIC TABLEWARE INDUSTRY OF BANGLADESH AND MARKETING STRATEGY 32 CHANGING SCHARLO OF EXPORT ORIENTED CERAMIC TOURACTING IN THE SOUTH AFRICAN PUBLIC HEALTH SYSTEM 39 ULUANUE TONORMAD OF DRAVEN 45 ROYA DARAMINE AVENA 45 ROYA DARAMINET CAURA SISTED INSTRUCTION (CAI) ON ELEMENTARY SCHOOL STUDENTS' PERFORMANCE 45 ROYA DARAMINET AVENA 45 LISRIDMARAN DER NIN ANDAL AND HESI INCOME IN BUSINET - A HOLISTIC APPROACH 60 NUMANE CHARDS NINGUN AND SHIGS IN NADARAMINET AND HESI INCOME IN SATISFACTION DIESTIC APPROACH 66 NUMERA SUBMISSION AND SHIGH ANADARAMINE A ANIL & TYOR 73 RECENT TRENDS IN INDUA ARENULTURAL DIVERSIFICATION 68 D. CHARDS AND HESI IN KOADARARCULTURAL DIVERSIFICATION 68 D. CHARDS AND HESI IN ANDARARCULTURAL DIVE	4.	AN EXTENDED TECHNOLOGY ACCEPTANCE MODEL TO UNDERSTAND ONLINE SHOPPING			
6. CHANGING SCENARIO OF EXPORT ORIENTED CERANIC TABLEWARE INDUSTRY OF BANGLADESH AND MARKETING STRATEGY 32 FORMULATION AN APPLICATION OF GROWTH-SHARE MATRIX GOLAM MOHAMMAD FORXAN 33 7. IMPACT OF THE FHEORY NAME OF SAVED BAYATI 45 8. COMPARISON OF COMPREHENSIVE INCOME AND NET INCOME IN EVALUATING OF FIRM PERFORMANCE 45 8. COMPARISON OF COMPREHENSIVE INCOME AND NET INCOME IN EVALUATING OF FIRM PERFORMANCE 45 8. COMPARISON OF COMPREHENSIVE INCOME AND NET INCOME IN EVALUATING OF FIRM PERFORMANCE 45 8. MULTENCE QUALITY ON SATISFACTION OF CUSTOMERS OF TELECOM SECTORS IN CHENNAL 52 1. SIDMARAMA & DR. N. THANGAVEL 57 7 MARKATING NAND SANGS IN NAGAPATTINAM DISTRICT – A HOUSTIC APPROACH 60 N. SATHYARAMA & D. N. SIMMI 64 66 1. RUBET BANKING - A COMPREHENSIVE OVERVIEW 73 1. RUBET BANKING - A COMPREHENSIVE OVERVIEW 73 1. RUSET MORAMA & D. N. SIMMI 66 1. RUPET THAN AND SINGSI IN NAGAPATTINAM DISTRICT – A HOUSTIC APPROACH 74 1. RUBET MARKA & D. N. SIMMI AND SINGSI IN NAGAPATTINAM DISTRICT – A HOUSTIC APPROACH <td< td=""><td>5.</td><td colspan="4">AN ATTITUDE SURVEY ON FIVE TOP TOURIST TRAFFIC HOST COMMUNITIES TOWARDS TOURISM ACTIVITIES: A CASE STUD</td></td<>	5.	AN ATTITUDE SURVEY ON FIVE TOP TOURIST TRAFFIC HOST COMMUNITIES TOWARDS TOURISM ACTIVITIES: A CASE STUD			
7. IMPACT OF THE THEORY AND PRACTICE OF GOVERNMENT CONTRACTING IN THE SOUTH AFRICAN PUBLIC HEALTH SYSTEM 33 1	6.	CHANGING SCENARIO OF EXPORT ORIENTED CERAMIC TABLEWARE INDUSTRY OF BANGLADESH AND MARKETING STRATEGY FORMULATION: AN APPLICATION OF GROWTH-SHARE MATRIX	32		
8. COMPARISON OF COMPREHENSIVE INCOME AND NET INCOME IN EVALUATING OF FIRM PERFORMANCE 45 9. INFLUENCE OF SERVICE QUALITY ON SATISFACTION OF CUSTOMERS OF TELECOM SECTORS IN CHENNAI 52 1. SIDDARAN & DR. N. TRANGAUEL 50 1. RURAL TRANSFORMATION AND SHGS IN NAGAPATTINAM DISTRICT – A HOLISTIC APPROACH 50 1. RURAL TRANSFORMATION A DRECULTURAL DIVERSIFICATION 68 2. RECENT TRONS IN INDIAN A ACRULURAL DIVERSIFICATION 68 3. INVESTMENT BANKING - A COMPREHENSIVE OVERVIEW 73 0.1. SA INTRA A OMPREHENSIVE OVERVIEW 73 1. INVESTMENT BANKING - A COMPREHENSIVE OVERVIEW 77 CONFORMATION OF UNIVENTORY SHRINKAGE IS BETTER THAN SHRINKING THE PROFIT - A GLOBAL ORGANISED RETAIL 77 CONFORMATION OF UNIVENTIAN AGREGUENT PRACTICES IN HOMELING SCORE 82 1. <t< td=""><td>7.</td><td>IMPACT OF THE THEORY AND PRACTICE OF GOVERNMENT CONTRACTING IN THE SOUTH AFRICAN PUBLIC HEALTH SYSTEM</td><td>39</td></t<>	7 .	IMPACT OF THE THEORY AND PRACTICE OF GOVERNMENT CONTRACTING IN THE SOUTH AFRICAN PUBLIC HEALTH SYSTEM	39		
9. INFLUENCE OF SERVICE QUALITY ON SATISFACTION OF CUSTOMERS OF TELECOM SECTORS IN CHENNAI 52 1. SRIDHARAN & DR. N. THANGAVEL 52 0. IFFECT OF COMPUTER ASSISTED INSTRUCTION (CAI) ON ELEMENTARY SCHOOL STUDENTS' PERFORMANCE IN BIOLOGY 57 7. RAMANIEET KAUR, SUSHAMA SHARMA & ANIL K. TYOR 60 1. RURAL TRANSFORMATION AND SNGS IN NAGAPATITINAM DISTRICT – A HOLISTIC APPROACH 60 N. SATHIYABAMA & D.R. N. SHANI 62 67 1. RURE TRANSFORMATION AGRICULTURAL DIVERSIFICATION 68 0. S. ANITHA 73 1. INVESTMENT BANKING - A COMPREHENSIVE OVERVIEW 73 1. INVESTMENT BANKING - A COMPREHENSIVE OVERVIEW 73 1. REVENTION OF INVENTORY SHRINKAGE IS BETTER THAN SHRINKING THE PROFIT – A GLOBAL ORGANISED RETAIL 77 1. REVENTION OF CUSTOMER RELATIONSHIP MANAGEMENT PRACTICES IN HOTELING SECTOR 82 1. A STUDY OF CUSTOMER RELATIONSHIP MANAGEMENT PRACTICES IN HOTELING SECTOR 82 1. A STUDY OF CUSTOMER RELATIONSHIP MANAGEMENT PRACTICES IN MISMES 89 1. SCHONTATION N. P. JADHAY & S. P. SHINDE 81 1.	8.	COMPARISON OF COMPREHENSIVE INCOME AND NET INCOME IN EVALUATING OF FIRM PERFORMANCE	45		
ID. EFFECT OF COMPUTER ASSISTED INSTRUCTION (CAI) ON ELEMENTARY SCHOOL STUDENTS' PERFORMANCE IN BIOLOGY 57 RAMANUECT KAUR, SUSHAMA SHARMA & ANIL K. TYOR RAMANUECT KAUR, SUSHAMA & ANIL K. TYOR 60 NURAL TRANSFORMATION AND SHGS IN NAGAPATTINAM DISTRICT – A HOLISTIC APPROACH 60 N. SATHIYABAMA & D.R. N. SHANI 66 D. RECENT TRENDS IN INDIAN AGRICULTURAL DIVERSIFICATION 68 D.R. S. AWITHA 73 D. NUESTIMENT BANKING - A COMPREHENSIVE OVERVIEW 73 D.R. S. AWITHA 74 PREVENTION OF INVENTORY SHRINKAGE IS BETTER THAN SHRINKING THE PROFIT – A GLOBAL ORGANISED RETAIL 77 ONERONTATION P. SATHISH CHANDRA & DR. G. SUNITHA 82 1. A STUDY OF CUSTOMER RELATIONSHIP MANAGEMENT PRACTICES IN HOTELING SECTOR 82 V. P. DESIMURKI, N. R. JADHAV & S. P. SHINDE 89 D.C. CHITRA SUXSUBRAMANIAN & S. D. UMA MAGESWARI 96 MOHD ABOUR BAHIMANI, MOHD ABOUL HAMEED & B.R. SHAZAN MOHD KHAN 96 MOHD ABOUR BAHIMANI, MOHD ABOUL HAMEED & B.R. SHAZAN MOHD KHAN 96 MOHD ABOUR BAHIMANI, MOHD ABOUL HAMEED & B.R. SHAZAN MOHD KHAN 96 MOHD ABOUR BAHIMANI, MOHD ABOUL HAMEED & B.R. SHAZAN MOHD KHAN 96 MOHD ABOUR RAHIMANI	9.	INFLUENCE OF SERVICE QUALITY ON SATISFACTION OF CUSTOMERS OF TELECOM SECTORS IN CHENNAI	52		
N. SATHIYABAMA & DR. N. SHANI 68 12. RECENT TRENDS IN INDIAN AGRICULTURAL DIVERSIFICATION 68 DR. DEEPARKHI GUPTA 73 13. INVESTMENT BANKING - A COMPREHENSIVE OVERVIEW 73 DR. S. ANTHA 73 14. PREVENTION OF INVENTORY SHRINKAGE IS BETTER THAN SHRINKING THE PROFIT - A GLOBAL ORGANISED RETAIL 77 CONFRONTATION 9. SATHIYA 15. A STUDY OF CUSTOMER RELATIONSHIP MANAGEMENT PRACTICES IN HOTELING SECTOR 82 V. P. DESTMUKH, N. Z. HONAW & S. P. SHINDE 82 16. ROLE OF GOVERNMENT OF INDIA IN ENHANCING KNOWLEDGE MANAGEMENT PRACTICES IN MSMEs 89 D. CHITRA SUMJOBANAMANAN & S. D. UMA MAGESWARI 96 17. CMN IN VARIOUS DIMENSIONS 96 MU-FI DEPOYNENTS IN CONJUNCTION WITH WI-MAX FOR NEXT GENERATION HETEROGENEOUS NETWORK 103 18. WI-FI DEPOYNENTS IN CONJUNCTION WITH WI-MAX FOR NEXT GENERATION HETEROGENEOUS NETWORK 104 19. A CASE STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO INDIAN BANK, CHITTOOR DISTRICT (A.P) 100 CHERKON 1707 HSNA & TOOL FOR DAILY LIFE SECURITY 113 MONALIKA SHARMA 92 21. BIOMETRICS SECURITY SYSTEM IS A TOOL FOR DAILY LIFE SECURITY 114 MCRO, STARTEGIC TRAINING FOR NON-LIFE INSURANCE COMPANIES' OF INDIA 112	10 .	EFFECT OF COMPUTER ASSISTED INSTRUCTION (CAI) ON ELEMENTARY SCHOOL STUDENTS' PERFORMANCE IN BIOLOGY	57		
DR. DEEPAKSHI GUPTA 73 13. INVESTMENT BANKING - A COMPREHENSIVE OVERVIEW 73 14. PREVENTION OF INVENTORY SHRINKAGE IS BETTER THAN SHRINKING THE PROFIT - A GLOBAL ORGANISED RETAIL 77 15. A STUDY OF CUSTOMER RELATIONSHIP MANAGEMENT PRACTICES IN HOTELING SECTOR 82 17. CONFRONTATION P. SATHISH CHANDRA & DR. G.SUNITHA 82 15. A STUDY OF CUSTOMER RELATIONSHIP MANAGEMENT PRACTICES IN HOTELING SECTOR 82 17. CRM IN VARIOUS DIMENSIONS 89 18. W.F. DESMMUKH, N. R. JADHAV & S. P. SHINDE 89 19. CRM IN VARIOUS DIMENSIONS 96 MOHD ABDUR RAMMAIN & S. D. UMA MAGESWARI 96 10. A CASE STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO INDIAN BANK, CHITTOOR DISTRICT (A.P) 100 19. A CASE STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO INDIAN BANK, CHITTOOR DISTRICT (A.P) 100 10. STRATEGIC TRAINING FOR NON-LIFE INSURANCE COMPANIES' OF INDIA 112 11. CHRIKA DHAMIP AS CIDAD REDOY YOSHMA 122 12. BIOMETRICS SECURITY SYSTEM IS A TOOL FOR DAILY LIFE SECURITY 113 12. MONALIKA SHARMA 122 12. EFFECTIVENESS OF SOFTWARE METRICS IN FINDING THE FAULTY CLASSES 122 12. GUETONESS OF SOFTWARE METRICS IN FINDING THE FAULTY CLASSES	11.	RURAL TRANSFORMATION AND SHGS IN NAGAPATTINAM DISTRICT – A HOLISTIC APPROACH	60		
DR. S. ANITHA DR VENTION OF INVENTORY SHRINKAGE IS BETTER THAN SHRINKING THE PROFIT - A GLOBAL ORGANISED RETAIL 14. PREVENTION OF INVENTORY SHRINKAGE IS BETTER THAN SHRINKING THE PROFIT - A GLOBAL ORGANISED RETAIL 77 15. A STUDY OF CUSTOMER RELATIONSHIP MANAGEMENT PRACTICES IN HOTELING SECTOR 82 15. A STUDY OF CUSTOMER RELATIONSHIP MANAGEMENT PRACTICES IN HOTELING SECTOR 82 16. ROLE OF GOVENMENT OF INDIA IN ENHANCING KNOWLEDGE MANAGEMENT PRACTICES IN MSMES 89 17. CRM IN VARIOUS DIMENSIONS 96 MOHD ABDUR RAHMAN, MOHD ABDUL HAMEED & DR. SHAZAM MOHD KHAN 96 18. WI-FI DEPLOYMENTS IN CONJUNCTION WITH WI-MAX FOR NEXT GENERATION HETEROGENEOUS NETWORK 100 19. A CASE STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO INDIAN BANK, CHITTOOR DISTRICT (A.P) 100 10. CHERKORI YOTHSNA & CIDDA AREDDY JYOSHNA 111 10. CHERKORI YOTHSNA & CIDDA REPRAISAL WITH REFERENCE TO INDIAN BANK, CHITTOOR DISTRICT (A.P) 100 10. CHERKORI OFANINCE APPRAISAL WITH REFERENCE TO INDIAN BANK, CHITTOOR DISTRICT (A.P) 100 11. CHITAG OHAMII PATEL 111 12. BIOMETRICS SECURITY SYSTEM IS A TOOL FOR DAILY LIFE SECURITY 111 12. MICRO, SMALL AND MEDIUM (MISMES) ENTERPR	12 .		68		
CONFRONTATION P. SATHISH CHANDRA & DR. G. SUNITHA 12 A STUDY OF CUSTOMER RELATIONSHIP MANAGEMENT PRACTICES IN HOTELING SECTOR 82 V. P. DESHMUKH, N. R. JADHAV& S. P. SHINDE 82 13 A STUDY OF CUSTOMER RELATIONSHIP MANAGEMENT PRACTICES IN HOTELING SECTOR 89 14 CRN IN VARIOUS DIMENSIONS 96 17 CRN IN VARIOUS DIMENSIONS 96 18 WI-FI DEPLOYMENTS IN CONJUNCTION WITH WI-MAX FOR NEXT GENERATION HETEROGENEOUS NETWORK 100 18 WI-FI DEPLOYMENTS IN CONJUNCTION WITH WI-MAX FOR NEXT GENERATION HETEROGENEOUS NETWORK 100 19. A CASE STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO INDIAN BANK, CHITTOOR DISTRICT (A.P) 100 CHERGORI //OTHANIN & CIDDA REDDY //OSHNA 111 111 CHIRG DHAMI! PATEL 112 111 21. BIOMETRICS SECURITY SYSTEM IS A TOOL FOR DAILY LIFE SECURITY 111 MONALIAS SHARMA 122 122 21. BIOMETRICS SECURITY SYSTEM IS A TOOL FOR DAILY LIFE SECURITY 112 22. ENTARTICLE STOR ON PERFORMANCE OF SELECTED SBI SECTOR FUNDS 122 23. A COMPARATIVE STUDY ON PERFORMANCE OF SELECTED SBI SECTOR FUNDS 122 24. MICRO, SMALL AND	13.		73		
15. A STUDY OF CUSTOMER RELATIONSHIP MANAGEMENT PRACTICES IN HOTELING SECTOR 82 V. P. DESHMUKH, N. R. JADHAV & S. P. SHINDE 82 6. ROLE OF GOVERNMENT OF INDIA IN ENHANCING KNOWLEDGE MANAGEMENT PRACTICES IN MSMES 89 DR. CHITRA SIVASUBRAMANIAN & S. D. UMA MAGESWARI 96 MOHD ADDUR RAHMAN, MOHD ABDUL HAMEED & DR. SHAZAN MOHD KHAN 96 MOHD ADDUR RAHMAN, MOHD ABDUL HAMEED & DR. SHAZAN MOHD KHAN 96 MU-FI DEPLOYMENTS IN CONJUNCTION WITH WI-MAX FOR NEXT GENERATION HETEROGENEOUS NETWORK 103 AIAY M. PATEL & HIRAL R. PATEL 104 19. A CASE STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO INDIAN BANK, CHITTOOR DISTRICT (A.P) 100 CHERAG DHANIJ PATEL 111 CHIRAG DHANIJ PATEL 112 CHIRAG DHANIJ PATEL 112 MONALKA SHARMA 127 A COMPARATIVE STUDY ON PERFORMANCE OF SELECTED SBI SECTOR FUNDS 127 G. L. MEENA 122 A COMPARATIVE STUDY ON PERFORMANCE OF SELECTED SBI SECTOR FUNDS 122 G. L. MEENA 126 A COMPARATIVE STUDY ON PERFORMANCE OF SELECTED SBI SECTOR FUNDS 127 G. L. MEENA 126 A STUDY ON PROFTHABILITY ANALYSIS OF SHIPPING COMPANIES IN INDIA <	14.	CONFRONTATION	77		
16. ROLE OF GOVERNMENT OF INDIA IN ENHANCING KNOWLEDGE MANAGEMENT PRACTICES IN MSMEs 89 DR. CHITRA SIVASUBRAMANIAN & S. D. UMA MAGESWARI 96 17. CRM IN VARIOUS DIMENSIONS 96 MOHD ABDUR RAHMAN, MOHD ABDUL HAMEED & DR. SHAZAN MOHD KHAN 96 18. WI-FI DEPLOYMENTS IN CONJUNCTION WITH WI-MAX FOR NEXT GENERATION HETEROGENEOUS NETWORK 105 18. WI-FI DEPLOYMENTS IN CONJUNCTION WITH WI-MAX FOR NEXT GENERATION HETEROGENEOUS NETWORK 106 19. A CASE STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO INDIAN BANK, CHITTOOR DISTRICT (A.P) 106 19. A CASE STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO INDIA 113 20. STRATEGIC TRAINING FOR NON-LIFE INSURANCE COMPANIES' OF INDIA 114 21. BIOMETRICS SECURITY SYSTEM IS A TOOL FOR DAILY LIFE SECURITY 116 22. EFFECTIVENESS OF SOFTWARE METRICS IN FINDING THE FAULTY CLASSES 122 23. A COMPARATIVE STUDY ON PERFORMANCE OF SELECTED SBI SECTOR FUNDS 122 24. MICRO, SMALL AND MEDIUM (MSMES) ENTERPRISES AND INDIAN ECONOMY: AN EMPIRICAL STUDY ON ROLE OF MSMES 122 25. ENHANCING EFFECTIVENESS OF CRM THROUGH MOBILE CRM IN EDUCATION SECTOR 136 25. ENHANCING EFFECTIVENESS OF CRM THROUGH MOBILE CRM IN EDUCATION S	15.	A STUDY OF CUSTOMER RELATIONSHIP MANAGEMENT PRACTICES IN HOTELING SECTOR	82		
17. CRM IN VARIOUS DIMENSIONS MOHD ABDUR RAHMAN, MOHD ABDUL HAMEED & DR. SHAZAN MOHD KHAN 96 18. WI-FI DEPLOYMENTS IN CONJUNCTION WITH WI-MAX FOR NEXT GENERATION HETEROGENEOUS NETWORK 103 18. WI-FI DEPLOYMENTS IN CONJUNCTION WITH WI-MAX FOR NEXT GENERATION HETEROGENEOUS NETWORK 103 19. A CASE STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO INDIAN BANK, CHITTOOR DISTRICT (A.P) 106 19. A CASE STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO INDIAN BANK, CHITTOOR DISTRICT (A.P) 106 10. STRATEGIC TRAINING FOR NON-LIFE INSURANCE COMPANIES' OF INDIA 113 20. STRATEGIC TRAINING FOR NON-LIFE INSURANCE COMPANIES' OF INDIA 114 21. BIOMETRICS SECURITY SYSTEM IS A TOOL FOR DAILY LIFE SECURITY 116 22. NONALIKA SHARMA 127 23. A COMPARATIVE STUDY ON PERFORMANCE OF SELECTED SBI SECTOR FUNDS 127 34. MICRO, SMALL AND MEDIUM (MSMES) ENTERPRISES AND INDIAN ECONOMY: AN EMPIRICAL STUDY ON ROLE OF MSMES 122 24. MICRO, SMALL AND MEDIUM (MSMES) ENTERPRISES AND INDIAN ECONOMY: AN EMPIRICAL STUDY ON ROLE OF MSMES 125 25. ENHANCING EFFECTIVENESS OF CRM THROUGH MOBILE CRM IN EDUCATION SECTOR 136 26. A STUDY ON PROFITABILITY ANALYSIS OF SHIPPING COMPANIES IN INDIA	16 .	ROLE OF GOVERNMENT OF INDIA IN ENHANCING KNOWLEDGE MANAGEMENT PRACTICES IN MSMES			
18. WI-FI DEPLOYMENTS IN CONJUNCTION WITH WI-MAX FOR NEXT GENERATION HETEROGENEOUS NETWORK 103 AJAY M. PATEL & HIRAL R. PATEL 104 19. A CASE STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO INDIAN BANK, CHITTOOR DISTRICT (A.P) 106 CHEEKCORI JYOTHSNA & CIDDA REDDY JYOSHMA 111 20. STRATEGIC TRAINING FOR NON-LIFE INSURANCE COMPANIES' OF INDIA 111 CHIRAG DHANJ PATEL 112 21. BIOMETRICS SECURITY SYSTEM IS A TOOL FOR DAILY LIFE SECURITY 118 MONALIKA SHARMA 112 22. EFFECTIVENESS OF SOFTWARE METRICS IN FINDING THE FAULTY CLASSES 122 POOJA 23. A COMPARATIVE STUDY ON PERFORMANCE OF SELECTED SBI SECTOR FUNDS 127 23. A COMPARATIVE STUDY ON PERFORMANCE OF SELECTED SBI SECTOR FUNDS 127 24. MICRO, SMALL AND MEDIUM (MSMES) ENTERPRISES AND INDIAN ECONOMY: AN EMPIRICAL STUDY ON ROLE OF MSMES 126 25. ENHANCING EFFECTIVENESS OF CRM THROUGH MOBILE CRM IN EDUCATION SECTOR 136 26. A STUDY ON PROFITABILITY ANALYSIS OF SHIPPING COMPANIES IN INDIA 144 27. SCIENTOMETRIC MAPPING OF GREEN COMPUTING: THE GLOBAL PERSPECTIVE 144 28. TESTING THE WEAK FORM EFFICIENCY OF COMMODITY MARKET IN INDIA	17.	CRM IN VARIOUS DIMENSIONS	96		
19. A CASE STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO INDIAN BANK, CHITTOOR DISTRICT (A.P) 106 19. CHEEKOORI JYOTHSNA & CIDDA REDDY JYOSHNA 111 20. STRATEGIC TRAINING FOR NON-LIFE INSURANCE COMPANIES' OF INDIA CHIRAG DHANIJ PATEL 111 21. BIOMETRICS SECURITY SYSTEM IS A TOOL FOR DAILY LIFE SECURITY MONALIKA SHARMA 112 22. EFFECTIVENESS OF SOFTWARE METRICS IN FINDING THE FAULTY CLASSES POOJA 122 23. A COMPARATIVE STUDY ON PERFORMANCE OF SELECTED SBI SECTOR FUNDS G. L. MEENA 127 24. MICRO, SMALL AND MEDIUM (MSMEs) ENTERPRISES AND INDIAN ECONOMY: AN EMPIRICAL STUDY ON ROLE OF MSMEs 125 25. ENHANCING EFFECTIVENESS OF CRM THROUGH MOBILE CRM IN EDUCATION SECTOR LAKSHMI KALYANI & DR. ABHISHEK SINGH 136 26. A STUDY ON PROFITABILITY ANALYSIS OF SHIPPING COMPANIES IN INDIA DR. P. CHELLASAMY & M. SRIDEVI 144 27. SCIENTOMETRIC MAPPING OF GREEN COMPUTING: THE GLOBAL PERSPECTIVE M. PADMINI, T. R. SAJANI NAIR, R. SURYA & T. SUHIRTHARANI 144 28. TESTING THE WEAK FORM EFFICIENCY OF COMMODITY MARKET IN INDIA VUVARAJ. D 144 29. AGILE BUSINESS INTELLIGENCE FOR AGILE DECISION-MAKING SIREESHA PULIPATI 155 30. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS SIREESHA PULIP	18.	WI-FI DEPLOYMENTS IN CONJUNCTION WITH WI-MAX FOR NEXT GENERATION HETEROGENEOUS NETWORK			
20. STRATEGIC TRAINING FOR NON-LIFE INSURANCE COMPANIES' OF INDIA 113 21. BIOMETRICS SECURITY SYSTEM IS A TOOL FOR DAILY LIFE SECURITY 114 22. CHIRAG DHANJI PATEL 115 22. EFFECTIVENESS OF SOFTWARE METRICS IN FINDING THE FAULTY CLASSES 127 23. A COMPARATIVE STUDY ON PERFORMANCE OF SELECTED SBI SECTOR FUNDS 127 24. MICRO, SMALL AND MEDIUM (MSMES) ENTERPRISES AND INDIAN ECONOMY: AN EMPIRICAL STUDY ON ROLE OF MSMES 128 25. ENHANCING EFFECTIVENESS OF CRM THROUGH MOBILE CRM IN EDUCATION SECTOR 136 26. A STUDY ON PROFITABILITY ANALYSIS OF SHIPPING COMPANIES IN INDIA 140 27. SCIENTOMETRIC MAPPING OF GREEN COMPUTING: THE GLOBAL PERSPECTIVE 144 27. SCIENTOMETRIC MAPPING OF GREEN COMPUTING: THE GLOBAL PERSPECTIVE 144 28. TESTING THE WEAK FORM EFFICIENCY OF COMMODITY MARKET IN INDIA 144 29. AGILE BUSINESS INTELLIGENCE FOR AGILE DECISION-MAKING 152 30. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS 153 30. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS 157 30. INFORMATION TECHNOLO	19.	A CASE STUDY ON PERFORMANCE APPRAISAL WITH REFERENCE TO INDIAN BANK, CHITTOOR DISTRICT (A.P)			
21. BIOMETRICS SECURITY SYSTEM IS A TOOL FOR DAILY LIFE SECURITY 118 MONALIKA SHARMA 112 22. EFFECTIVENESS OF SOFTWARE METRICS IN FINDING THE FAULTY CLASSES 122 POOJA 123 23. A COMPARATIVE STUDY ON PERFORMANCE OF SELECTED SBI SECTOR FUNDS 127 G. L. MEENA 127 24. MICRO, SMALL AND MEDIUM (MSMEs) ENTERPRISES AND INDIAN ECONOMY: AN EMPIRICAL STUDY ON ROLE OF MSMEs 126 25. ENHANCING EFFECTIVENESS OF CRM THROUGH MOBILE CRM IN EDUCATION SECTOR 136 26. A STUDY ON PROFITABILITY ANALYSIS OF SHIPPING COMPANIES IN INDIA 140 27. SCIENTOMETRIC MAPPING OF GREEN COMPUTING: THE GLOBAL PERSPECTIVE 144 28. TESTING THE WEAK FORM EFFICIENCY OF COMMODITY MARKET IN INDIA 142 29. AGILE BUSINESS INTELLIGENCE FOR AGILE DECISION-MAKING 157 30. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS 157 30. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS 157	20 .	STRATEGIC TRAINING FOR NON-LIFE INSURANCE COMPANIES' OF INDIA	113		
POOJA POOJA 23. A COMPARATIVE STUDY ON PERFORMANCE OF SELECTED SBI SECTOR FUNDS 127. G. L. MEENA 127. 24. MICRO, SMALL AND MEDIUM (MSMEs) ENTERPRISES AND INDIAN ECONOMY: AN EMPIRICAL STUDY ON ROLE OF MSMEs 129. 25. ENHANCING EFFECTIVENESS OF CRM THROUGH MOBILE CRM IN EDUCATION SECTOR 136. 26. A STUDY ON PROFITABILITY ANALYSIS OF SHIPPING COMPANIES IN INDIA 140. 27. SCIENTOMETRIC MAPPING OF GREEN COMPUTING: THE GLOBAL PERSPECTIVE 144. 28. TESTING THE WEAK FORM EFFICIENCY OF COMMODITY MARKET IN INDIA 148. 29. AGILE BUSINESS INTELLIGENCE FOR AGILE DECISION-MAKING 152. 30. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS 157. 30. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS 157. 30. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS 157. 30. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS 157. 31. MOHITA 145. 157.	21 .		118		
G. L. MEENA Image: Constraint of the second sec	22.		122		
SUSANTA KANRAR SUSANTA KANRAR 25. ENHANCING EFFECTIVENESS OF CRM THROUGH MOBILE CRM IN EDUCATION SECTOR 136 LAKSHMI KALYANI & DR. ABHISHEK SINGH 140 26. A STUDY ON PROFITABILITY ANALYSIS OF SHIPPING COMPANIES IN INDIA 140 DR. P. CHELLASAMY & M. SRIDEVI 144 27. SCIENTOMETRIC MAPPING OF GREEN COMPUTING: THE GLOBAL PERSPECTIVE 144 M. PADMINI, T. R. SAJANI NAIR, R. SURYA & T. SUHIRTHARANI 148 YUVARAJ. D 29. AGILE BUSINESS INTELLIGENCE FOR AGILE DECISION-MAKING 152 SIREESHA PULIPATI 30. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS ASSOCIATES WITH SPECIAL REFERENCE TO MODERNIZATION OF CORE PROCESSING SYSTEM MOHITA 157	23.		127		
LAKSHMI KALYANI & DR. ABHISHEK SINGH 140 26. A STUDY ON PROFITABILITY ANALYSIS OF SHIPPING COMPANIES IN INDIA DR. P. CHELLASAMY & M. SRIDEVI 140 27. SCIENTOMETRIC MAPPING OF GREEN COMPUTING: THE GLOBAL PERSPECTIVE M. PADMINI, T. R. SAJANI NAIR, R. SURYA & T. SUHIRTHARANI 144 28. TESTING THE WEAK FORM EFFICIENCY OF COMMODITY MARKET IN INDIA YUVARAJ. D 148 29. AGILE BUSINESS INTELLIGENCE FOR AGILE DECISION-MAKING SIREESHA PULIPATI 152 30. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS ASSOCIATES WITH SPECIAL REFERENCE TO MODERNIZATION OF CORE PROCESSING SYSTEM MOHITA 157	24.	SUSANTA KANRAR	129		
DR. P. CHELLASAMY & M. SRIDEVI 144 27. SCIENTOMETRIC MAPPING OF GREEN COMPUTING: THE GLOBAL PERSPECTIVE M. PADMINI, T. R. SAJANI NAIR, R. SURYA & T. SUHIRTHARANI 144 28. TESTING THE WEAK FORM EFFICIENCY OF COMMODITY MARKET IN INDIA YUVARAJ. D 148 29. AGILE BUSINESS INTELLIGENCE FOR AGILE DECISION-MAKING SIREESHA PULIPATI 152 30. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS ASSOCIATES WITH SPECIAL REFERENCE TO MODERNIZATION OF CORE PROCESSING SYSTEM MOHITA 157	25.		136		
M. PADMINI, T. R. SAJANI NAIR, R. SURYA & T. SUHIRTHARANI 148 28. TESTING THE WEAK FORM EFFICIENCY OF COMMODITY MARKET IN INDIA 148 YUVARAJ. D 152 29. AGILE BUSINESS INTELLIGENCE FOR AGILE DECISION-MAKING 152 SIREESHA PULIPATI 153 30. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS ASSOCIATES WITH SPECIAL REFERENCE TO MODERNIZATION OF CORE PROCESSING SYSTEM 157 MOHITA 154 157	26.		140		
YUVARAJ. D 152 29. AGILE BUSINESS INTELLIGENCE FOR AGILE DECISION-MAKING SIREESHA PULIPATI 152 30. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS ASSOCIATES WITH SPECIAL REFERENCE TO MODERNIZATION OF CORE PROCESSING SYSTEM MOHITA 157	27.		144		
SIREESHA PULIPATI 30. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS 157 ASSOCIATES WITH SPECIAL REFERENCE TO MODERNIZATION OF CORE PROCESSING SYSTEM MOHITA	28.		148		
BO. INFORMATION TECHNOLOGY: ITS APPLICATION AND IMPACT ON ORGANIZATIONAL CULTURE OF STATE BANK OF INDIA AND ITS ASSOCIATES WITH SPECIAL REFERENCE TO MODERNIZATION OF CORE PROCESSING SYSTEM MOHITA 157	29 .		152		
ASSOCIATES WITH SPECIAL REFERENCE TO MODERNIZATION OF CORE PROCESSING SYSTEM MOHITA					
REQUEST FOR FEEDBACK 161	30.	ASSOCIATES WITH SPECIAL REFERENCE TO MODERNIZATION OF CORE PROCESSING SYSTEM	157		
		REQUEST FOR FEEDBACK	161		

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WI-FI DEPLOYMENTS IN CONJUNCTION WITH WI-MAX FOR NEXT GENERATION HETEROGENEOUS NETWORK

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ABSTRACT

In the past few years the Wireless Local Area Network (WLAN) has been the most popular choice of communication amongst users. WLAN, which is based on the IEEE 802.11 standard, also known as Wireless Fidelity (WiFi), offers mobility and flexibility with a relatively low cost to users. In addition, wireless technology is providing easier internet access to areas that are too difficult and expensive to reach with traditional wired infrastructure. IEEE 802.16, also known as Worldwide Interoperability for Microwave Access (WiMAX), is another standard with similar general principles as WiFi with the main advantages being it covers a larger area and has a higher data rate. Although WiMAX greatly outperforms WiFi, user devices such as desktops, laptops and cell phones need to have WiMAX capability to be able to connect to WiMAX sources. Currently, not many user devices have WiMAX capability, the majority has WiFi capability. The best way to enjoy the advantage of the WiMAX system is to combine the WiMAX and WiFi systems together. This paper shows the logical model for usage of both together. Here, the scenario turns out to be the viable model for using WiMAX in a Wi-Fi world. Consider the usual configuration of a Wi-Fi access point: it provides service to Wi-Fi clients, and connects to the Internet by a wired Ethernet connection. The alternative, whether in a corporate or metropolitan network, would be to use a mesh Wi-Fi connection is available, it is possible to use this for the backhaul connection. As broadband mobile data rates increase and coverage expands, it becomes viable to incorporate a cellular NIC card into a Wi-Fi access point and build a highly-mobile Internet service. Just power-up the access point and it provides Wi-Fi coverage for local clients while connecting to the outside world or similar connection. This paper shows the advantages of using both wimax/wifi together by combining the usage of both. It explores the complementary nature of wifi/wimax as well as illustrates how users can leverage these

KEYWORDS

Ad-hoc Network, DSL, NIC, Wireless Network, WLAN.

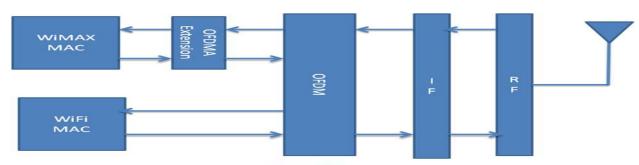
INTRODUCTION

any people in the world today have the need for unlimited access to the Internet. Unlimited Internet access is actually no issue. All you really need to do is subscribe to a good broadband or cable connection and you are good to do. This is only applicable when talking about 24/7 Internet access. Network integration for Next generation wireless networks, where the diverse of the technologies available and optimized for different usages models. WiMAX and WiFi are the most promising techniques for future wireless networks; internetworking between these technologies is inevitable for better usability of the network infrastructure and support for seamlessly mobility and roaming. The unique similarities between WiFi and WiMAX networks that make the proposed synergy promising and meaningful that both technologies are fully packet switching uses IP based network approaches provide compelling benefits to service providers to collaborate between these technologies. By Digital Subscriber Line (DSL) and other fixed broadband connections within wireless hotspots, WiFi has dramatically increased productivity and Convenience. WiFi delivers high speed WLAN connectivity to millions of offices, homes and public locations. The integration of WiFi into notebooks or other devices has accelerated the adoption of WiFi to the point where its nearly a default feature in these devices. On other hand WiMAX takes wireless internet access to the next level and overtime could achieve similar rates to devices as WiFi. WiMAX can deliver internet access miles from the nearest WiFi hotspot and cover large area called WLAN, be they metropolitan with multi megabit per second mobile broadband internet access. This standards and IP based network approach provides compelling benefits to service providers to collaborate between these technologies.

- ✓ Wireless broadband services which enable for attaining rapid user adoption.
- Any WiMAX or WiFi devices are able to connect to any WiMAX or WiFi network that supports the same network settings.
- It provides certification profiles, facilitating volume production & global economies of scale.
- ✓ All IP based networks infrastructure, enabling cost effective deployments for operators and open internet services for users.[1]

LAYER INTEGRATION

There are many similarities between WiFi and WiMAX at PHY and MAC Layers. At the MAC Layer the media independent handover protocol developed which enables the handover of IP sessions from one layer to access technology to another to achieve the mobility of end use devices. At PHY layer OFDM transmission concepts and mobile WiMAX is using OFDMA techniques. The convergence at physical layer will reduce the base station cost significantly where the base station can use the same IF, RF and antenna parts for both technologies. The integration at PHY level needs a change on the silicon chip which increases the complexity of baseband chip. This can be realized by implementing software defined radio technique to switch between the two techniques at baseband and RF levels where components that have typically been implemented in hardware instead of implemented using software on the base station baseband. FIGURE 1: INTEGRATION OF WIMAX AND WIFI PHY LAYER AT BASEBAND LEVEL



INTEROPERABILITY OPPORTUNITIES & CHALLENGES

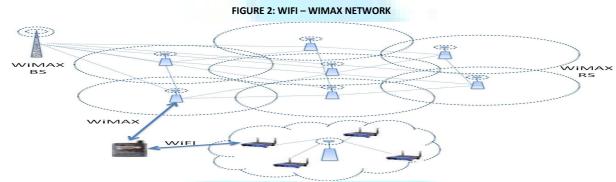
The WiFi and WiMAX have fundamental differences in their MAC layer. WiMAX is a frame based centrally coordinated MAC protocol. WiFi allows distributed control and a contention free centrally controlled access to the channel. Both have a similar OFDM based transmission scheme and channelization which facilitates their internetworking.

The integration of both implies internetworking between similar and different types of devices in a common protocol. The network is coordinated by central coordinator which combines WiMAX BS with the point coordination function of WiFi. This integration is capable of operating in the both mode. It's also known as Base station Hybrid Coordinator where internetworking is based on an integration of WiFi transmission sequences into the MAC frame structure of WiMAX. The common framework was introduced that allows the operation of WiFi and WiMAX with optimal bandwidth sharing. Game theory and genetic algorithm have been used to analyze and obtain the optimal pricing for bandwidth sharing between a WiMAX BS and WiFi APs.

The integration and convergence can be done in OSI model. The easiest way is to go for upper layer where all the implementation will be based on software. [3]

INTEGRATED SERVICES

WiFi specifying standards for WiFi WLAN and WiMAX specify the standard for WiMAX MMR networks. The next generation network architecture consists of optical networks, WiMAX relay networks and WiFi mesh networks as per shown in figure.



The wavelength division multiplexing optical ring forms the core of MAN. WiMAX BS and RS form WiMAX MMR network that passes traffics to core network. WiFi mesh network provides direct high data rate connection to end user. Different transmission points serves as bridge between networks for traffic distribution. The WDM ring have optical switch node which are portal nodes in WiMAX MMR networks and responsible for traffic transformation. Same as WiMAX BS and RS serve as portal node in WiFi mesh networks.

This integration enabling the sharing of silicon blocks at the baseband level to reduce die size and cost. It shares the antennas so saves component cost and device real estate. It provides common platform level approach for interfacing the operating system's power management utilities optimizes power consumption and maximizes battery life. At the user interface level, a common connection manager coordinates and displays available WiMAX and WiFi networks, and compatibility-tested software drivers work harmoniously together. It provides common user experience for access network and also optimizes the traffic.

WIFI – WIMAX INTEGRATED SYSTEM

The main aim of this integration is to defining an efficient user-driven mechanism which does not require any change on network and protocol architecture that can be easily applied in current integrated WiFi/WiMAX systems. The WiMAX addresses Non-Line-Of-Sight operations and it has about 400 meters of radius when used at 3.5 GHz with a maximum 20Mbps data rate when using a 7MHz bandwidth. Whereas WiFi, well developed and commercialized at this day, operates in the 2.4GHz unlicensed band and offers coverage of about 70-80 meters with a maximum data rate of 54Mbps.

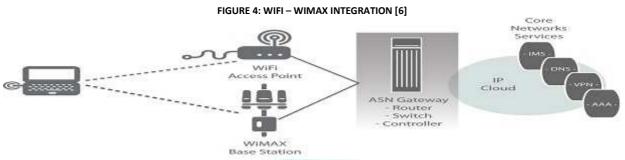
FIGURE 3: WI-FI -WIMAX COMPARISON				
Technology	Wi-Fi 802.11 n	WIMAX		
Application	Wireless LAN, Internet	Metro Area Broadband Internet Connectivity		
Frequency Range	2.4 GHz	2.11 GHz		
Typical Range	100m	50 km.		
Data Rate	108-600 mbps	75 mbps		
Modulation	DSSS	QAM		
Network	IP & P2P	IP		
IT Network Connectivity	Yes	Yes		
Network Topology	Infrastructure(Ad-hoc also)	Infrastructure		
Access Protocol	CSMA/CA	Request/Gant		
Key Attribute	Wider Bandwith Flexibility	Throughput,Coverage		

The WiFi and WiMAX networks are deployed considering their complementarities in terms of data rate performance and coverage: we assume that the WiMAX network guarantees users mobility in a large area and is accessible everywhere, while the WiFi APs are selectively deployed in locations with a concentration of mobile users and heavy network traffic (Hot Spot). User equipment that embeds two MAC interfaces with different IP addresses assigned respectively by the AP

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and the WiMAX Base Station (BS). These two MAC interfaces work independently and periodically monitor several metrics as link quality, channel occupancy, error rate. This information is then forwarded to a "mobility management" process implemented at the top of the MAC layer: this entity controls continuously the behavior of each stack and triggers when required. Link quality parameters are reported by the MAC layer to the mobility management process for analyzing connection performance. The measurement of these parameters is required to satisfy the properties continuously monitoring the access network condition, currently unused interface traffic, no need for special AP and BS cooperation and use measured parameters indicators in terms of performance.



The integration of WiFi & WiMAX requires two key elements as per figure 4, Multi-mode subscriber devices that can communicate on both WiMAX and WiFi networks and ability to provide service across WiMAX and WiFi networks when users move between them. This is generally implemented through a controlling Access Service Network Gateway (ASN GW) and common Authentication, Authorization, and Accounting (AAA) service functionality located in the service provider network. [6]

In WiFi and WiMAX the method of estimating bandwidth occupation is not same since they rely on different medium access mechanisms. WiFi Uses CSMA/CD for continuously listen the channel before competing for the access. The MAC process records the channel busy time, then periodically calculates the channel occupancy percentage. Whereas WiMAX uses access to the channel is synchronized and network resource usage is controlled by the BS. [5]

CONCLUSION

WiMAX will be useful for providing intermediate-distance backhaul for Wi-Fi access points, sometimes a preferable arrangement to Wi-Fi mesh technology. The inter-working capabilities between WiMAX and WiFi enable service providers to deliver consistent, transparent, and user-friendly broadband services to their subscribers. WiMAX extends the benefits of WiFi networks to deliver the next-generation mobile Internet. Integrating of WiMAX and WiFi provides affordable broadband connectivity that brings new deployment models for service providers, as well as new usage models for subscribers. The ability to be connected to the Internet and to have access to real-time information in more places is of high value to Business professionals and consumers. It provides portable services.

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Thanking you profoundly

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