

Security Sublayer: A Required Evolution of Wireless Security IEEE 802.16j

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Abstract—This paper investigates the fundamental and security issues of security sublayer reside at MAC layer of Wimax networks. Initially healthy overview of Wimax technology is documented followed by the weaknesses to the MAC layer and problems associated to the Wimax 802.16j. The risks and impacts are assessed according to a systematic approach. Several articles have been published to address the flaws in IEEE 802.16j Security even then enhanced version of this protocol cannot settle all the problems and additional flaws emerge. Here in particular vulnerabilities leading to the denial of service attacks on standard like regarding Reset-Command message, key sharing mechanism, water torture attacks, black hat threat etc are discussed in a precise and concise manner.

Keywords— Security Sublayer, Wimax, Dos Attacks, IEEE 802.16j, Authentication, Encryption

I. INTRODUCTION

In Wimax, The base station and subscriber station face most of the same security threats and attacks as their wired counterparts, including eavesdropping, masquerading session, hijacking, middle in man attacks, replay attacks etc. Moreover wireless network regardless of whether they belong to which family are inherently less secure than wired networks because they lack the physical infrastructure. [1]. Wireless networks represent an important example of such scenarios where capturing and forging packets are relatively easy. Attacks against networked systems are becoming more complex and powerful. IEEE 802.16j task group works on incorporating multihop relay capabilities into mobile Wimax, the change mode is highly agree with 802.16e mobile and subscriber stations, but a base station specific to 802.16j will be required for relays to operate. Standard launched a new product called Relay stations which is high cost efficient and less complex than base station with relay capabilities. RS is used to collect all traffics from different sources and relay it to a base station, there is no processing at relay station. As it's easy to install, cheaper and less complex nature, chances of introducing Rogue RS or hijacking of the session, or any sorts of attacks are much easier.

IEEE 802.16j security specifications can mainly be found within the MAC layer, security parameters within the MAC layer can be embedded in a separate layer called security sublayer. The goal is to provide access control and

confidentiality of the authentication, secure key exchange and encryption so when two parties establish a link, they are protected via a set of protocol that ensure confidentiality and unique access of the authorized parties. The unique hand shaking between the two entities, namely base stations and subscriber station is done at the MAC layer through security sublayer. [1]. MAC layer consists of three sub-layer, the first sub-layer is the service specific convergence sub-layer for mapping services to and from 802.16 Mac connections, the synchronous transfer mode (ATM) convergence layer is dedicated to ATM facilities whereas the packet convergence layer is accountable of for mapping conventions and protocols[2], the second sublayer is common part sub-layer which is the core of the standard and is tightly integrated with security sub-layer, the last sublayer is security sub-layer which lies between the MAC CPS and the PHY layer, addressing the authentication, key establishment and exchange etc between the MAC and PHY layer.[3]. This paper will address the security issues, vulnerabilities, threats and risks of IEEE 802.16j standard in a very precise and sequential manner.

II. SECURITY SUBLAYER THREATS AND SOLUTIONS

Most of the experts and professionals claiming that broadband data delivered over 3G cellular networks will choke the hope of the WiMAX industry for the standard to become worldwide significant. There are too many factors involved in weakening WiMax security, stability, Quality of service etc. A WiMax wireless access network consists of base stations and mobile stations (MSs). The base stations provide network add-on to the mobile stations. As a serving base station, a mobile station selects the one which offers the strongest signal. At this point, the subscriber plays the role of the user while a base station and a collection of served mobile stations play the role of system. In wimax most of the security issues are addressed and handled in the MAC security sub-layer as described in the figure below: After MAC common part sublayer, security sublayer starts, in common part sublayer MAC protocol data units (PDUs) are constructed, connections are established and bandwidth is managed, the common part exchanges MAC service data units (SDUs) with the convergence layer. The common part is tightly integrated with the security sublayer, the security sublayer addresses

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Applied Cryptography and Network Security Dieter Gollmann, Atsuko Miyaji, Hiroaki Kikuchi, 2017-06-23 This book constitutes the proceedings of the 15th International Conference on Applied Cryptology and Network Security ACNS 2017 held in Kanazawa Japan in July 2017 The 34 papers presented in this volume were carefully reviewed and selected from 149 submissions The topics focus on innovative research and current developments that advance the areas of applied cryptography security analysis cyber security and privacy data and server security Network Security Empowered by Artificial Intelligence Yingying Chen, Jie Wu, Paul Yu, Xiaogang Wang, 2024-06-25 This book introduces cutting edge methods on security in spectrum management mobile networks and next generation wireless networks in the era of artificial intelligence AI and machine learning ML This book includes four parts a Architecture Innovations and Security in 5G Networks b Security in Artificial Intelligence enabled Intrusion Detection Systems c Attack and Defense in Artificial Intelligence enabled Wireless Systems d Security in Network enabled Applications The first part discusses the architectural innovations and security challenges of 5G networks highlighting novel network structures and strategies to counter vulnerabilities The second part provides a comprehensive analysis of intrusion detection systems and the pivotal role of AI and machine learning in defense and vulnerability assessment The third part focuses on wireless systems where deep learning is explored to enhance wireless communication security The final part broadens the scope examining the applications of these emerging technologies in network enabled fields The advancement of AI ML has led to new opportunities for efficient tactical communication and network systems but also new vulnerabilities Along this direction innovative AI driven solutions such as game theoretic frameworks and zero trust architectures are developed to strengthen defenses against sophisticated cyber threats Adversarial training methods are adopted to augment this security further Simultaneously deep learning techniques are emerging as effective tools for securing wireless communications and improving intrusion detection systems Additionally distributed machine learning exemplified by federated learning is revolutionizing security model training Moreover the integration of AI into network security especially in cyber physical systems demands careful consideration to ensure it aligns with the dynamics of these systems This book is valuable for academics researchers and students in AI ML network security and related fields It serves as a resource for those in computer networks AI ML and data science and can be used as a reference or secondary textbook *Advances in Cyber Security* Mohammed Anbar, Nibras Abdullah, Selvakumar Manickam, 2021-02-04 This book presents refereed proceedings of the Second International Conference on Advances in Cyber Security ACeS 2020 held in Penang Malaysia in September 2020 Due to the COVID 19 pandemic the conference was held online The 46 full papers and 1 short paper were carefully reviewed and selected from 132 submissions The papers are organized in topical sections on internet of things industry 4 0 and blockchain and cryptology digital forensics and surveillance botnet and malware and intrusion detection prevention ambient

cloud and edge computing wireless and cellular communication governance social media mobile and web data privacy data policy and fake news Frontiers in Cyber Security Haomiao Yang,Rongxing Lu,2024-01-03 This volume constitutes the refereed proceedings of the 6th International Conference on Frontiers in Cyber Security FCS 2023 held in Chengdu China in August 2023 The 44 full papers included in this book were carefully reviewed and selected from 89 submissions They were organized in topical sections as follows Blockchain and Distributed Systems Network Security and Privacy Protection Cryptography and Encryption Techniques Machine Learning and Security and Internet of Things and System Security

Developing and Securing the Cloud Bhavani Thuraisingham,2013-10-28 Although the use of cloud computing platforms and applications has expanded rapidly most books on the subject focus on high level concepts There has long been a need for a book that provides detailed guidance on how to develop secure clouds Filling this void *Developing and Securing the Cloud* provides a comprehensive overview of cloud computing t ECCWS 2017 16th European Conference on Cyber Warfare and Security Academic Conferences and Publishing Limited,2017 *Journal of the National Institute of Information and Communications Technology* ,2016 Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security Gupta, Brij,Agrawal, Dharma P.,Yamaguchi, Shingo,2016-05-16 Internet usage has become a facet of everyday life especially as more technological advances have made it easier to connect to the web from virtually anywhere in the developed world However with this increased usage comes heightened threats to security within digital environments The Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security identifies emergent research and techniques being utilized in the field of cryptology and cyber threat prevention Featuring theoretical perspectives best practices and future research directions this handbook of research is a vital resource for professionals researchers faculty members scientists graduate students scholars and software developers interested in threat identification and prevention

Environmental Protection and Resources Exploitation Zi Li Liu,Xin Fa Dong,Zhao Tie Liu,Qi Hai Liu,2013-09-10 Selected peer reviewed papers from the 2013 International Conference on Advances in Energy and Environmental Science ICAEES 2013 July 30 31 2013 Guangzhou China *Cyber Security Using Modern Technologies* Om Pal,Vinod Kumar,Rijwan Khan,Bashir Alam,Mansaf Alam,2023-08-02 The main objective of this book is to introduce cyber security using modern technologies such as Artificial Intelligence Quantum Cryptography and Blockchain This book provides in depth coverage of important concepts related to cyber security Beginning with an introduction to Quantum Computing Post Quantum Digital Signatures and Artificial Intelligence for cyber security of modern networks and covering various cyber attacks and the defense measures strategies and techniques that need to be followed to combat them this book goes on to explore several crucial topics such as security of advanced metering infrastructure in smart grids key management protocols network forensics intrusion detection using machine learning cloud computing security risk assessment models and frameworks cyber physical energy systems security a biometric random key generator using deep neural network and encrypted network traffic

classification In addition this book provides new techniques to handle modern threats with more intelligence It also includes some modern techniques for cyber security such as blockchain for modern security quantum cryptography and forensic tools Also it provides a comprehensive survey of cutting edge research on the cyber security of modern networks giving the reader a general overview of the field It also provides interdisciplinary solutions to protect modern networks from any type of attack or manipulation The new protocols discussed in this book thoroughly examine the constraints of networks including computation communication and storage cost constraints and verifies the protocols both theoretically and experimentally Written in a clear and comprehensive manner this book would prove extremely helpful to readers This unique and comprehensive solution for the cyber security of modern networks will greatly benefit researchers graduate students and engineers in the fields of cryptography and network security

Power Systems and Power Plant Control

Pingyang Wang,1987 The control of power systems and power plants is a subject of worldwide interest which continues to sustain a high level of research development and application in many diverse yet complementary areas Papers pertaining to 13 areas directly related to power systems and representing state of the art methods are included in this volume The topics covered include linear and nonlinear optimization static and dynamic state estimation security analysis generation control excitation and voltage control power plant modelling and control stability analysis emergency and restorative controls large scale sparse matrix techniques data communication microcomputer systems power system stabilizers load forecasting optimum generation scheduling and power system control centers The compilation of this information in one volume makes it essential reading for a comprehension of the current knowledge in the field of power control

Sensors, Mechatronics and

Automation Seung Bok Choi,Prasad Yarlagadda,Mohammad Abdullah-Al-Wadud,2014-02-06 Selected peer reviewed papers from the 2013 International Conference on Sensors Mechatronics and Automation ICSMA 2013 December 24 25 2013 Shenzhen China

Cyber security, crime and warfare in Pakistan Qamar Atta Ul Haq,2016-08-24 Document from the year 2016 in the subject Computer Science IT Security grade A course BSCS language English abstract This research report analyze the public interest and tension latent hostility between privacy and cyber security in Pakistan It explores the challenges that Cyber security holds for privacy and data protection

Memoirs of the Institute of Scientific and Industrial Research, Osaka University Ōsaka Daigaku. Sangyō Kagaku Kenkyūjo,2012

Security in Computing

Charles P. Pfleeger,Shari Lawrence Pfleeger,Jonathan Margulies,2015-01-14 The New State of the Art in Information Security Now Covers Cloud Computing the Internet of Things and Cyberwarfare Students and IT and security professionals have long relied on Security in Computing as the definitive guide to computer security attacks and countermeasures Now the authors have thoroughly updated this classic to reflect today s newest technologies attacks standards and trends Security in Computing Fifth Edition offers complete timely coverage of all aspects of computer security including users software devices operating systems networks and data Reflecting rapidly evolving attacks countermeasures and computing environments this

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Table of Contents 2012 Ieee Base Paper On Network Security

1. Understanding the eBook 2012 Ieee Base Paper On Network Security
 - The Rise of Digital Reading 2012 Ieee Base Paper On Network Security
 - Advantages of eBooks Over Traditional Books
2. Identifying 2012 Ieee Base Paper On Network Security
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 2012 Ieee Base Paper On Network Security
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2012 Ieee Base Paper On Network Security
 - Personalized Recommendations

- 2012 Ieee Base Paper On Network Security User Reviews and Ratings
- 2012 Ieee Base Paper On Network Security and Bestseller Lists
- 5. Accessing 2012 Ieee Base Paper On Network Security Free and Paid eBooks
 - 2012 Ieee Base Paper On Network Security Public Domain eBooks
 - 2012 Ieee Base Paper On Network Security eBook Subscription Services
 - 2012 Ieee Base Paper On Network Security Budget-Friendly Options
- 6. Navigating 2012 Ieee Base Paper On Network Security eBook Formats
 - ePub, PDF, MOBI, and More
 - 2012 Ieee Base Paper On Network Security Compatibility with Devices
 - 2012 Ieee Base Paper On Network Security Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2012 Ieee Base Paper On Network Security
 - Highlighting and Note-Taking 2012 Ieee Base Paper On Network Security
 - Interactive Elements 2012 Ieee Base Paper On Network Security
- 8. Staying Engaged with 2012 Ieee Base Paper On Network Security
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2012 Ieee Base Paper On Network Security
- 9. Balancing eBooks and Physical Books 2012 Ieee Base Paper On Network Security
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2012 Ieee Base Paper On Network Security
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 2012 Ieee Base Paper On Network Security
 - Setting Reading Goals 2012 Ieee Base Paper On Network Security
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2012 Ieee Base Paper On Network Security
 - Fact-Checking eBook Content of 2012 Ieee Base Paper On Network Security

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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