

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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Security and Privacy in Cyberspace Omprakash Kaiwartya, Keshav Kaushik, Sachin Kumar Gupta, Ashutosh Mishra, Manoj Kumar, 2022-08-28 This book highlights the literature and the practical aspects to understand cybersecurity and privacy in various networks and communication devices. It provides details of emerging technologies on various networks by protecting the privacy and security of cyberspace. This book presents state of the art advances in the field of cryptography and network security, cybersecurity and privacy, providing a good reference for professionals and researchers.

Cybersecurity and Human Capabilities Through Symbiotic Artificial Intelligence Hamid Jahankhani, Biju Issac, 2025-06-14 This book presents the 16th ICGS3 24 conference which aims to understand the full impact of cyber security, AI, deepfake and quantum computing on humanity. Over the last two decades, technology relating to cyber space, satellites, drones, UAVs, cyber security, artificial intelligence and generative AI has evolved rapidly. Today, criminals have identified rewards from online frauds; therefore, the risks and threats of cyber attacks have increased too. Detection of the threat is another strand to the strategy and will require dynamic risk management techniques, strong and up to date information governance standards and frameworks with AI responsive approaches in order to successfully monitor and coordinate efforts between the parties. Thus, the ability to minimize the threats from cyber is an important requirement. This will be a mission critical aspect of the strategy with development of the right cyber security skills, knowledge and culture that are imperative for the implementation of the cyber strategies. As a result, the requirement for how AI Demand will influence business change and thus influence organizations and governments is becoming important. In an era of unprecedented volatile political and economic environment across the world, computer based systems face ever more increasing challenges, disputes and responsibilities while the Internet has created a global platform for the exchange of ideas, goods and services; however, it has also created boundless opportunities for cyber crime. The ethical and legal implications of connecting the physical and digital worlds and presenting the reality of a truly interconnected society present the realization of the concept of smart societies. Drawing on 15 years of successful events, the 16th ICGS3 24 conference aims to provide attendees with an information packed agenda with representatives from across the industry and the globe. This Annual International Conference is an established platform in which security, safety and sustainability issues can be examined from several global perspectives through dialogue between academics, students, government representatives, chief executives, security professionals and research scientists from the UK and from around the globe.

Intelligent Systems Design and Applications Ajith Abraham, Sabri Pillana, Thomas Hanne, Patrick Siarry, 2024-07-12 This book highlights recent research on intelligent systems and nature inspired computing. It presents 50 selected papers focused on Information and Network Security from the 23rd International Conference on Intelligent Systems Design and Applications ISDA 2023 which was held in 5 different cities namely Olten Switzerland, Porto Portugal, Kaunas Lithuania, Greater Noida India, Kochi India and in online mode. The ISDA is a

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Machine Intelligence Applications in Cyber-Risk Management Almaiah, Mohammed Amin, Maleh, Yassine, 2024-11-29 In an era where cyber threats are increasingly sophisticated and persistent the intersection of machine intelligence and cyber risk management represents a pivotal frontier in the defense against malicious actors The rapid advancements of artificial intelligence AI and machine learning ML technologies offer unprecedented capabilities for identifying analyzing and mitigating cyber risks These technologies not only improve the speed and accuracy of identifying potential threats but also enable proactive and adaptive security measures Machine Intelligence Applications in Cyber Risk Management explores the diverse applications of machine intelligence in cyber risk management providing a comprehensive overview of how AI and ML algorithms are utilized for automated incident response threat intelligence gathering and dynamic security postures It addresses the pressing need for innovative solutions to combat cyber threats and offer insights into the future of cybersecurity where machine intelligence plays a crucial role in creating resilient and adaptive defense mechanisms Covering topics such as anomaly detection algorithms malware detection and wireless sensor networks WSNs this book is an excellent resource for cybersecurity professionals researchers academicians security analysts threat intelligence experts IT managers and more

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Gunasekaran Manogaran, A. Shanthini, G. Vadivu, 2022-04-26 This book gathers selected papers presented at the International Conference on Deep Learning Computing and Intelligence ICDLCI 2021 organized by Department of Information Technology SRM Institute of Science and Technology Chennai India during January 7 8 2021 The conference is sponsored by Scheme for Promotion of Academic and Research Collaboration SPARC in association with University of California UC Davis and SRM Institute of Science and Technology The book presents original research in the field of deep learning algorithms and medical imaging systems focusing to address issues and developments in recent approaches algorithms mechanisms and developments in medical imaging

Towards a Wireless Connected World: Achievements and New Technologies Al-Sakib Khan Pathan, 2022-05-17 This book gathers key advances in various areas related to using wireless Internet and wireless connectivity to achieve a more connected world The world is now highly dependent on Internet connectivity Even though some parts of the globe remain isolated the smoothly running world all around us relies on Internet services for countless businesses and activities During the COVID 19 pandemic we have seen that exclusively relying on wired Internet would leave out a large part of our tech savvy world Hence wireless connectivity is essential to anywhere anytime connectivity Further in the event of a new pandemic or other disaster of global scale wireless Internet offers a reliable way to keep us all connected

The contributors to this book hailing from academia industrial and research laboratories report on the latest solutions trends and technologies with the potential to make wireless Internet more reliable and secure for the years to come **Phishing Detection Using Content-Based Image Classification** Shekhar Khandelwal,Rik Das,2022-06-01 Phishing Detection Using Content Based Image Classification is an invaluable resource for any deep learning and cybersecurity professional and scholar trying to solve various cybersecurity tasks using new age technologies like Deep Learning and Computer Vision With various rule based phishing detection techniques at play which can be bypassed by phishers this book provides a step by step approach to solve this problem using Computer Vision and Deep Learning techniques with significant accuracy The book offers comprehensive coverage of the most essential topics including Programmatically reading and manipulating image data Extracting relevant features from images Building statistical models using image features Using state of the art Deep Learning models for feature extraction Build a robust phishing detection tool even with less data Dimensionality reduction techniques Class imbalance treatment Feature Fusion techniques Building performance metrics for multi class classification task Another unique aspect of this book is it comes with a completely reproducible code base developed by the author and shared via python notebooks for quick launch and running capabilities They can be leveraged for further enhancing the provided models using new advancement in the field of computer vision and more advanced algorithms **AI-Centric Modeling and Analytics** Alex Khang,Vugar Abdullayev,Babasaheb Jadhav,Shashi Gupta,Gilbert Morris,2023-12-06 This book shares new methodologies technologies and practices for resolving issues associated with leveraging AI centric modeling data analytics machine learning aided models Internet of Things driven applications and cybersecurity techniques in the era of Industrial Revolution 4 0 AI Centric Modeling and Analytics Concepts Technologies and Applications focuses on how to implement solutions using models and techniques to gain insights predict outcomes and make informed decisions This book presents advanced AI centric modeling and analysis techniques that facilitate data analytics and learning in various applications It offers fundamental concepts of advanced techniques technologies and tools along with the concept of real time analysis systems It also includes AI centric approaches for the overall innovation development and implementation of business development and management systems along with a discussion of AI centric robotic process automation systems that are useful in many government and private industries This reference book targets a mixed audience of engineers and business analysts researchers professionals and students from various fields **Information Systems Security** Rudrapatna K. Shyamasundar,Virendra Singh,Jaideep Vaidya,2017-12-08 This book constitutes the refereed proceedings of the 13th International Conference on Information Systems Security ICISS 2017 held in Mumbai India in December 2017 The 17 revised full papers and 7 short papers presented together with 2 invited papers were carefully reviewed and selected from 73 submissions The papers address the following topics privacy cryptography systems security security analysis identity management and access control security attacks and detection network security **Data Engineering and Management**

Rajkumar Kannan, Frederic Andres, 2012-02-29 This book constitutes the thoroughly refereed post conference proceedings of the Second International Conference on Data Engineering and Management ICDEM 2010 held in Tiruchirappalli India in July 2010 The 46 revised full papers presented together with 1 keynote paper and 2 tutorial papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on Digital Library Knowledge and Multimedia Data Management and Knowledge Extraction Natural Language Processing Workshop on Data Mining with Graphs and Matrices **Wireless Algorithms, Systems, and Applications** Liran Ma, Abdallah Khreishah, Yan

Zhang, Mingyuan Yan, 2017-06-09 This book constitutes the proceedings of the 12th International Conference on Wireless Algorithms Systems and Applications WASA 2017 held in Guilin China in June 2017 The 70 full papers and 9 short papers presented in this book were carefully reviewed and selected from 238 submissions The papers cover various topics such as cognitive radio networks wireless sensor networks cyber physical systems distributed and localized algorithm design and analysis information and coding theory for wireless networks localization mobile cloud computing topology control and coverage security and privacy underwater and underground networks vehicular networks internet of things information processing and data management programmable service interfaces energy efficient algorithms system and protocol design operating system and middle ware support and experimental test beds models and case studies **Pattern Recognition**

Apostolos Antonacopoulos, Subhasis Chaudhuri, Rama Chellappa, Cheng-Lin Liu, Saumik Bhattacharya, Umapada Pal, 2024-12-03 The multi volume set of LNCS books with volume numbers 15301 15333 constitutes the refereed proceedings of the 27th International Conference on Pattern Recognition ICPR 2024 held in Kolkata India during December 1 5 2024 The 963 papers presented in these proceedings were carefully reviewed and selected from a total of 2106 submissions They deal with topics such as Pattern Recognition Artificial Intelligence Machine Learning Computer Vision Robot Vision Machine Vision Image Processing Speech Processing Signal Processing Video Processing Biometrics Human Computer Interaction HCI Document Analysis Document Recognition Biomedical Imaging Bioinformatics *Proceedings of the NIELIT's International Conference on Communication, Electronics and Digital Technology* Isaac Woungang, Sanjay Kumar

Dhurandher, Yumnam Jayanta Singh, 2024-07-30 The book presents selected papers from NIELIT's International Conference on Communication Electronics and Digital Technology NICEDT 2024 held during 16 17 February 2024 in Guwahati India The book is organized in two volumes and covers state of the art research insights on artificial intelligence machine learning big data data analytics cybersecurity and forensic network and mobile security advance computing cloud computing quantum computing VLSI and semiconductors electronics system Internet of Things robotics and automations blockchain and software technology digital technologies for future and assistive technology for Divyangjan people with disabilities **Information and Communications Security** Jianying Zhou, Xiapu Luo, Qingni Shen, Zhen Xu, 2020-02-17 This book constitutes the refereed proceedings of the 21th International Conference on Information and Communications Security ICICS 2019 held in

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Singh, Gennady Veselov, Valeriy Vyatkin, Anton Pljonkin, Juan Manuel Dodero, Yugal Kumar, 2021-03-30 This two volume set CCIS 1395 1396 constitutes the refereed proceedings of the Third International Conference on Futuristic Trends in Network and Communication Technologies FTNCT 2020 held in Taganrog Russia in October 2020 The 80 revised full papers presented were carefully reviewed and selected from 291 submissions The prime aim of the conference is to invite researchers from different domains of network and communication technologies to a single platform to showcase their research ideas The selected papers are organized in topical sections on communication technologies security and privacy futuristic computing technologies network and computing technologies wireless networks and Internet of Things IoT

Modern Practices and Trends in Expert Applications and Security Vijay Singh Rathore, Subrahmanyam Murala, Eva Tuba, Man Mohan Singh, 2025-08-20 This book is a collection of best selected research papers presented at the International Conference on Modern Practices and Trends in Expert Applications and Security MP TEAS 2024 This book contains articles on current trends of machine learning internet of things and smart cities applications emphasizing on multi disciplinary research in the areas of artificial intelligence and cyber physical systems The book is a great resource for scientists research scholars and PG students to formulate their research ideas and find future directions in these areas *Human-Centric Smart Computing* Siddhartha Bhattacharyya, Jyoti Sekhar Banerjee, Mario Köppen, 2024-02-17 This book includes high quality research papers presented at the Second International Conference on Human Centric Smart Computing ICHCSC 2023 organized by the University of Engineering and Management Jaipur India on 5 6 July 2023 in New Delhi India The topics covered in the book are human centric computing hyper connectivity and data science The book presents innovative work by leading academics researchers and experts from industry

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Table of Contents Ieee Base Paper About Phishing

1. Understanding the eBook Ieee Base Paper About Phishing
 - The Rise of Digital Reading Ieee Base Paper About Phishing
 - Advantages of eBooks Over Traditional Books
2. Identifying Ieee Base Paper About Phishing
 - 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 Ieee Base Paper About Phishing
 - User-Friendly Interface

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

12. Sourcing Reliable Information of Ieee Base Paper About Phishing
 - Fact-Checking eBook Content of Ieee Base Paper About Phishing
 - 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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