

# 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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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

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**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, advanced 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 Beijing, China, in December 2019. The 47 revised full papers were carefully selected from 199 submissions. The papers are organized in topics on malware analysis and detection, IoT and CPS security, enterprise network security, software security, system security, authentication, applied cryptography, internet security, machine learning security, machine learning privacy, Web security, steganography, and steganalysis      **Emerging Research in Intelligent Systems** Miguel Botto-Tobar, Henry Cruz, Angela Díaz Cadena, Benjamin Durakovic, 2022-02-02 This book constitutes the proceedings of the XVI Multidisciplinary International Congress on Science and Technology CIT 2021 held in Quito, Ecuador, on June 14-18, 2021, proudly organized by Universidad de las Fuerzas Armadas ESPE. In collaboration with GDEON, CIT is an international event with a multidisciplinary approach that promotes the dissemination of advances in science and technology research through the presentation of keynote conferences. In CIT, theoretical, technical, or application works that are research products are presented to discuss and debate ideas, experiences, and challenges. Presenting high-quality peer-reviewed papers, the book discusses the following topics: Artificial Intelligence, Computational Modeling, Data Communications, Defense Engineering, Innovation Technology, and Society Managing Technology, Sustained Innovation, and Business Development, Security, and Cryptography, Software Engineering      **Blockchain and Trustworthy Systems** Hong-Ning Dai, Xuanzhe Liu, Daniel Xiapu Luo, Jiang Xiao, Xiangping Chen, 2021-12-02 This book constitutes the thoroughly refereed post-conference papers of the Third International Conference on Blockchain and Trustworthy Systems Blocksys 2021 held in Guangzhou, China, in August 2021. The 38 full papers and the 12 short papers were carefully reviewed and selected from 98 submissions. The papers are organized in topical sections: Contents, Blockchain and Data Mining, Performance Optimization of Blockchain, Blockchain Security and Privacy, Theories and Algorithms for Blockchain, Blockchain and Internet of Things, Blockchain and Smart Contracts, Blockchain Services and Applications, Trustworthy System Development      A Machine-Learning Approach to Phishing Detection and Defense O.A.

Akanbi,Iraj Sadegh Amiri,E. Fazeldehkordi,2014-12-05 Phishing is one of the most widely perpetrated forms of cyber attack used to gather sensitive information such as credit card numbers bank account numbers and user logins and passwords as well as other information entered via a web site The authors of A Machine Learning Approach to Phishing Detection and Defense have conducted research to demonstrate how a machine learning algorithm can be used as an effective and efficient tool in detecting phishing websites and designating them as information security threats This methodology can prove useful to a wide variety of businesses and organizations who are seeking solutions to this long standing threat A Machine Learning Approach to Phishing Detection and Defense also provides information security researchers with a starting point for leveraging the machine algorithm approach as a solution to other information security threats Discover novel research into the uses of machine learning principles and algorithms to detect and prevent phishing attacks Help your business or organization avoid costly damage from phishing sources Gain insight into machine learning strategies for facing a variety of information security threats

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*Proceedings of Integrated Intelligence Enable Networks and Computing* Krishan Kant Singh Mer,Vijay Bhaskar Semwal,Vishwanath Bijalwan,Rubén González

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