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

Adnan Shahid Khan,
Telematic Research Group,
Faculty of Electrical Engineering,
Universiti Teknologi Malaysia
Johor Bahru,Malaysia
adnan_ucit@gmail.com

Prof.Dr.Norsheila Fisal
Telematic Research Group,
Faculty of Electrical Engineering,
Universiti Teknologi Malaysia
Johor Bahru,Malaysia
sheila@fke.utm.my

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 weakness 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 then 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 then 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 Mse 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 sublayer 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 serivice 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 **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 anomy 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 **Proceedings of International Conference on Deep Learning, Computing and Intelligence** 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 ICDCI 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 Intelligent Systems Design and Applications Ajith Abraham,Sabri Pllana,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 premier conference in the field of artificial

intelligence and the latest installment brought together researchers engineers and practitioners whose work involves intelligent systems and their applications in industry ISDA 2023 had contributions by authors from 64 countries This book offers a valuable reference guide for all network and security specialists scientists academicians researchers students and practitioners in the field of artificial intelligence and information network security **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 Mulsemedia 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 werde 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 **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 *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 *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 Futuristic Trends in Network and Communication Technologies Pradeep Kumar Singh,Gennady Veselov,Valeriy Vyatkin,Anton Pljonkin,Juan Manuel Dodero,Yugal Kumar,2021-03-30 This two wolume 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 *Cybersecurity and Artificial Intelligence* Hamid

Jahankhani,Gordon Bowen,Mhd Saeed Sharif,Osama Hussien,2024-04-17 This book discusses a range of topics that are essential to understanding cyber security including legal implications and technical aspects cyber detection and minimising the threats so that governments and organisations can function without noticeable degradation of service Unlike other technological threats cyber security threats have the potential to destroy governments and undermine democratic processes which makes an overarching cyber security strategy essential for all functioning governments Thus the book serves as a guide for developing strategies and ideas in the field and as a motivator for other governments and interested parties to develop and implement effective strategies Arguably the most difficult aspect of these strategies is their implementation which will require a cultural sea change in governments approaches to handling cyber security and developing a regulatory framework that links organisations and governments in a secure working environment The development of cyber security strategies calls for new skills at the technical and user levels alike However IT skills are sometimes in short supply and without a government policy on cyber security training the lack of these skills could hamper the full potential of cyber security The book explores various aspects and challenges of cyber security strategy and highlights the benefits and drawbacks offering in depth insights into the field **Proceedings of Integrated Intelligence Enable Networks and Computing** Krishan Kant Singh Mer,Vijay Bhaskar Semwal,Vishwanath Bijalwan,Rubén González Crespo,2021-04-23 This book presents best selected research papers presented at the First International Conference on Integrated Intelligence Enable Networks and Computing IIENC 2020 held from May 25 to May 27 2020 at the Institute of Technology Gopeshwar India Government Institute of Uttarakhand Government and affiliated to Uttarakhand Technical University The book includes papers in the field of intelligent computing The book covers the areas of machine learning and robotics signal processing and Internet of things big data and renewable energy sources Risks and Security of Internet and Systems Nora Cuppens,Frédéric Cuppens,Jean-Louis Lanet,Axel Legay,Joaquin Garcia-Alfaro,2018-03-09 This book constitutes the revised selected papers from the 12th International Conference on Risk and Security of Internet and Systems CRISIS 2017 held in Dinard France in September 2017 The 12 full papers and 5 short papers presented in this volume were carefully reviewed and selected from 42 submissions They cover diverse research themes ranging from classic topics such as vulnerability analysis and classification apps security access control and filtering cloud security cyber insurance and cyber threat intelligence human centric security and trust and risk analysis *Web Information Systems Engineering – WISE 2024 PhD Symposium, Demos and Workshops* Mahmoud Barhamgi,Hua Wang,Xin Wang,Esma Aïmeur,Michael Mrissa,Belkacem Chikhaoui,Khouloud Boukadi,Rima Grati,Zakaria Maamar,2025-02-27 This book constitutes the proceedings of the PhD Symposium Demos and Workshops from the 25th International Conference on Web Information Systems Engineering WISE 2024 held in Doha Qatar during December 2 5 2024 The 18 full papers 9 short papers 9 demos and posters presented here were carefully reviewed and selected from a total of 75 submissions These papers cover various areas of web security and

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