

Anti-tracking technology for metropolitan area networks using Philippine edge data centers



Overview

This paper presents AAKA, an anonymous authentication and key agreement scheme designed to protect against mobile tracking by honest-but-curious MNOs. MANILA (PIA) — The Anti-Red Tape Authority gathered government agencies, investors, and technology companies to tackle regulatory bottlenecks slowing the construction of data centers across the Philippines, as the Marcos Jr. administration pushes to build the digital infrastructure needed to. Abstract—Mobile tracking has long been a privacy problem, where the geographic data and timestamps gathered by mobile network operators (MNOs) are used to track the locations and movements of mobile subscribers. Additionally, selling the geolocation information of subscribers has become a lucrative. The geographic data and timestamps of subscribers held by mobile carriers have long been used by law enforcement and intelligence agencies to conduct legal investigations, largescale surveillance, or even unconstitutional search. The Philippines is the fastest growing digital economy in Southeast Asia, valued at \$17 billion in 2021. 7 years old, an. While the 5G system offers some privacy protection through the use of concealed and temporary subscriber identifiers, those with access to MNO databases can still track and profile users. This project addresses this problem by developing a fully functional anonymous mobile access architecture that. Metropolitan Area Networks (MAN) are pivotal in today's interconnected world, serving as a linchpin between local area networks (LANs) and wide area networks (WANs).

Article Content

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What Is Metropolitan Area Network Network And How It

A metropolitan area network (MAN) usually covers an entire city center or campus in computer networking. It connects LANs using high-speed

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Republic Act No. 4200, or the Anti-Wiretapping Law, stands as a bedrock of privacy protection in the Philippines. It draws a strict line against the unauthorized interception and recording

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Metropolitan Area Network (MAN) Explained

Metropolitan Area Networks, often referred to as MANs, are the technological lifelines that connect various locations within a city or metropolitan

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Advincula-Lopez, Leslie

Dr. Sherwin E. Ona, an associate professor at De La Salle University, examines the Philippines' efforts to combat recent increases in cybersecurity threats. The Philippines, like many small countries, is

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Defining MAN: Metropolitan Area Network

Interconnecting Local Area Networks (LANs): MANs are primarily designed to connect multiple Local Area Networks (LANs) within a metropolitan or city area.

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A Comparative study of the Philippines in a Global

The study concludes that improving cybersecurity practices in the Philippines is crucial to protecting the country's information infrastructure and

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What Is MAN? Metropolitan Area Network Explained

Discover what a Metropolitan Area Network (MAN) is, how it bridges LAN and WAN, and its core technologies and applications. | LINK-PP

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Philippines Data Centers

Data Centers in Philippines with map. List of available providers and facilities in Philippines, including Colocation, Bare Metal Servers, and IaaS Data Centers.

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What is a metropolitan area network (MAN)?

A metropolitan area network, or MAN, connects multiple LANs across a large area but is smaller than a WAN. Learn how MAN networks work.

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AAKA Project

To mitigate these privacy risks, we propose AAKA, an innovative cellular authentication scheme designed to prevent mobile tracking while maintaining network compatibility.

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Wireless Metropolitan Area Networking (Chapter 8)

Wireless Metropolitan Area Network (WMAN), like WLAN and WPAN, is a generic term for networking confined to a geographical area and a set of

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AAKA: An Anti-Tracking Anonymous Authentication Scheme for Next ...

Many mobile carriers, the leading aggregators of user location data, have repeatedly breached user privacy agreements and sold users' location history to third parties without user consent.

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WMAN (Wireless metropolitan area network)

These networks offer high-speed internet access, data transmission, and other communication services to users within the coverage area. Let's

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metropolitan area networks

This paper primarily studies the problem of edge server placement in wireless metropolitan area networks (WMANs) under an MEC environment. We study edge server placement in WMANs for two

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Using Data to Protect Data: Addressing Gaps in

Amid rising cybersecurity attacks, the Philippines needs a reporting system to capture, aggregate, and analyze challenges facing end users.

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Metropolitan Area Networks: The Backbone of Urban

Conclusion Metropolitan Area Networks play a crucial role in modern urban communication, offering high-speed connectivity and seamless integration

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Metropolitan Area Network (MAN): Infrastructure,

Future trends in Metropolitan Area Network technology will likely include the adoption of more sophisticated cybersecurity measures, such as

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An Act to Prohibit and Penalize Wire Tapping and Other

Be it enacted by the Senate and House of Representatives of the Philippines in Congress assembled: Section 1. It shall be unlawful for any person, not being

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Metropolitan Area Network

A Metropolitan Area Network (MAN) is defined as a network that covers a local geographic area, typically a city or a region, where multiple Local Area Networks (LANs) are interconnected using high

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Metropolitan Area Networks | part of Fundamentals of

Abstract: This chapter contains sections titled: Definition of a Metropolitan Area Network Design Approaches Fiber-Optic Ring Network IEEE 802.11 System IEEE 802.15 Standard IEEE 802.16

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Chapter 4 Security in Wireless Metropolitan Area Networks

A Metropolitan Area Network (MAN), also referred to as Metro Network (MN), is a computer communication network over a city or a group of adjacent cities[1,2]. The primary motivation for

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Security in Wireless Metropolitan Area Networks

Wireless Metropolitan Area Networks (WMANs) provide wireless communications at acceptable bandwidth over much larger geographical areas compared to Wireless Local Area Networks

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Modeling of Anti-tracking Network Based on Convex-Polytope Topology

From the aspects of network stability, network resilience and destroy-resistance, we propose the convex-polytope topology (CPT) applied in the anti-tracking network.

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AAKA: An Anti-Tracking Cellular Authentication Scheme Leveraging ...

AAKA leverages anonymous credentials and introduces a novel mobile authentication protocol that allows legitimate subscribers to access the network anonymously, without revealing their unique

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(PDF) Metropolitan Area Networks

2 Procedure, Switched Multimegabit Data Service, Resilient Packet Ring, Metro Ethernet, WirelessMAN, WiMAX Abstract A Metropolitan Area

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Understanding Metropolitan Area Network (MAN)

Metropolitan Area Network (MAN): their definition, advantages, and real-world applications. How MANs bridge the gap between LANs and WANs

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Understanding Metropolitan Area Networks (MAN):

Metropolitan Area Networks (MANs) are vital for enhancing connectivity in urban areas and large institutions. This comprehensive guide

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Overview of Wireless Metropolitan Area Network (WMAN)

It is a wireless telecommunication technology which operates in the ultra-high-frequency (UHF) portion of the radio spectrum between 2.5GHz and

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Metropolitan-area networks | IEEE Journals & Magazine | IEEE Xplore

Metropolitan-area networks (MAN), which fill the gap between local area networks (LANs) and wide-area networks (WANs), are discussed. MANs were originally oriented toward data,

Mar 11, 2026

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