WiMAX FORUM® NEWSLETTER

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INTRODUCTION

Dear Respected Colleagues,

The **WiMAX Forum** hope you've all had a great start to the 4Q 2022! With the support and cooperation of our **Board of Directors**, **Member Companies**, **Working Group Representatives** and industry experts, we are producing important work to bring the industry together to promote growth, innovation, increase awareness and advance the Aeronautical Mobile Airport Communication (**AeroMACS**), **WiGRID**, and the **WiMAX** technology.

While we have productive conversations and develop winning strategies, we see concrete results from our activities with the expectation that the market share will expand and succeed. The demand is undoubtedly out there, and the opportunities to leverage the technology with the development of technical specifications, certification and spectrum access solutions based on globally harmonized standards will result in a brighter future.

Last month, on September 5-9, the Civil Aviation Administration of China's (CAAC) presented a Working Paper to support the enhancement of AeroMACS SARPs and Technical Manual to be opened to additional technologies at the ICAO Twenty Sixth Meeting of the Communications/Navigation and Surveillance Sub-group (CNS SG/26). For more information, please click **here**.

To foster a prosperous environment and future for the AeroMACS and WiMAX ecosystem, the WiMAX Forum with the participation of our Member Companies will host, attend, and participate globally with speakers in key industry events. Through our events, speaking opportunities, and webinars, we are reaching out to diverse audiences in the community in ways that will best serve all stakeholders.

This month, the WiMAX Forum has been invited once again to participate at the **Industry of Things World USA**. Industry of Things World is designed to evaluate and discuss your technology strategy for a scalable, secure and efficient IIoT implementation around your production & your products. The conference will take place on March 19-21, 2023 at the Paradise Point Resort in San Diego, CA, USA. As details concerning this event become available, we will be sure to communicate them to you.

Over the coming months we will be doing some of our most important work yet, and we hope you can be part of it. The WiMAX Forum has plans to meet with industry leaders worldwide to raise awareness, develop and implement AeroMACS and WiMAX networks in ways that will best serve all stakeholders. Please stay tuned for other announcements soon and for more information,

visit our website at **WiMAXForum.org**, **YouTube Channel** and Social Media (**Facebook**, **LinkedIn** and **Twitter**).

Please reach out to us directly at **info@wimaxforum.org** for more information and we would be happy to schedule a time to speak with you. We at the WiMAX Forum wish you all the best and we hope to see you soon!

Best Regards,
WiMAX Forum

INDUSTRY SPOTLIGHT

The WiMAX Forum maintains a bustling schedule of public appearances, white paper publications, webinars, and press releases on behalf of our industry. Below you can find the most relevant activities and latest communications.

• **Application of Runway Status Light System in China**

CAAC takes runway incursion as one of the four major hazardous sources in civil aviation management. Preventing the occurrence of runway incursions is the focus of China's civil aviation safety. The Air Traffic Management Bureau (ATMB) of CAAC has formulated the "Technical Measures and Implementation Routes for Preventing Runway Incursion", which stipulates the minimum configuration requirements for runway incursion prevention equipment at airports of different levels.

To review the details, please click here.

• **CAAC'S Support for the Enhancement of AeroMACS SARPS and Technical Manual**

With the support of the Civil Aviation Administration of China (CAAC), the AeroMACS Forum presented a Working Paper in the 5th CP-DCIWG meeting (17-20 May 2022), proposing an initiative to revise the AeroMACS SARPs and Technical Manual (Doc 10044) to be less restrictive or specific to technology profiles like 802.16, so as to give the ecosystem the flexibility to provide AeroMACS services using any additional technology (e.g., LTE, 5G) that meets the minimum performance characteristics and capabilities of AeroMACS.

To review the details, please click here.

EVENTS

In the coming months, the WiMAX Forum will host, participate, attend, and support events globally. We continue our efforts to bring you quality conferences hosted by the WiMAX Forum, and we will present and participate at key industry events. The WiMAX Forum team looks forward to seeing you at these events.

Endorsed Events:

	January 31–February 2, 2023 Barcelona, Spain For more information visit: **IoT Solutions World Congress**
	March 27-29, 2023 New Delhi, India For more information visit: **Convergence India**

The WiMAX Forum plans to host and participate in other events over the course of the year. As details concerning these events are finalized, we will be certain to keep you informed. **For more information about our events, please visit: WiMAX Forum Events**.

MEMBERSHIP SERVICES

The **WiMAX Forum Membership** provides a wide range of **benefits and services** that promote growth and innovation of AeroMACS, WiGRID, and WiMAX technology.

Only WiMAX Forum Members can **certify** products to guarantee interoperability and standard compliance for AeroMACS, WiGRID, and WiMAX; secure networks using **Public Key Infrastructure (PKI)** certificates; develop technical specifications; influence favorable regulatory environments; and contribute to the growth of the industry through standards development that satisfy the market needs, among other advantages.

The WiMAX Forum is committed to delivering the value necessary for our members to get the most from their membership, and we are always

engaging with individual members to discuss how we can better serve them. If you are interested in speaking with our leadership team on our specific initiatives or have any questions, please send a message to **info@wimaxforum.org**.

The WiMAX Forum is the best place to access, leverage, and influence the growth and development of the AeroMACS, WiGRID, and WiMAX Technology. So be a leader and step up to get involved today!

WORKING GROUPS

The WiMAX Forum technical activities are organized through a number of Working Groups to address critical areas, produce technical requirements, develop technical specifications, advise the Forum and bring Certified products to the marketplace. The **WiMAX Forum Working Groups** are key to the development of WiMAX technology and participation is encouraged for all WiMAX Forum Members.

Working Group Members and key organizations from around the world work together to promote growth, accelerate adoption, deployment and expansion of the **AeroMACS** and **Smart Energy** markets, through a number of initiatives including product innovation, certification and spectrum access solutions. The Aviation Working Group (AWG) acts as a focal point for Worldwide Aviation Industry interest in AeroMACS as a technology for Aviation Applications on a global basis. And the Smart Energy Working Group (SEWG) acts as a focal point for Smart Energy Applications, and will promote WiMAX as the premiere technology globally.

AWG members and the aviation industry continue to support a number of AeroMACS projects and initiatives including: AeroMACS NextGen, maintenance of technical requirements and specifications related to AeroMACS Product Certification, AeroMACS Public Key Infrastructure (PKI), Federal Communications Commission (FCC) AeroMACS Petition for Rulemaking, in-person and virtual conferences, webinars and other initiatives to maximize the AeroMACS potential to thrive.

The AWG recently participated in the ICAO Data Communication Infrastructure Specific Working Group of the Communications Panel (CP-DCIWG/6). The WiMAX Forum and the Civil Aviation Administration of China's (CAAC) presented a Draft Job Card to support the enhancement of AeroMACS SARPs and Technical Manual to be opened to additional technologies. Strong support from member state was received to continue advancing the AeroMACS NextGen initiative. Further development of the Job Card will take place in Working Group M.

AWG members and industry representatives have been working together on the AeroMACS NextGen initiative to expand the AeroMACS profile to include additional technologies. The AWG has started the process to evaluate industry standards and propose the inclusion of other technologies within the AeroMACS Private Network Spectrum, while recommending the necessary modifications to existing requirements.

Industry technical experts are being encouraged to contribute to this development work at the AWG and **ICAO** Working Group level. Please contact the AWG Executive Secretary to see how you can become involved in this important initiative. By opening the AeroMACS Profile to additional technologies, the AWG is helping to build a more robust market to facilitate the wide-spread deployment of AeroMACS worldwide as the leading standardized technology selected to support the safety and regularity of flights.

The AWG was pleased to share the updated publication of AeroMACS MOPS. ED-223A/DO-346A was published by EUROCAE and RTCA respectively to address the required changes to ensure compatibility with other communication systems and standards.

The **AeroMACS PKI** is commercially available to the industry planning AeroMACS deployments as well as serving as a PKI model for other Aviation technologies. AWG members work closely with the ICAO and the aviation industry to ensure that the produced security policies and specifications can be used as guidelines to other groups.

The AeroMACS PKI is provided by the WiMAX Forum in partnership with **Eonti** as the Management Authority (MA). Strategic guidance for the AeroMACS PKI Program is provided by the AeroMACS Advisory Council (AAC), which is a collaborative body comprised of Members of the WiMAX Forum, worldwide regulatory organizations and ICAO. An overview of the AeroMACS PKI process is available here: **AeroMACS PKI Users Overview**.

SEWG members work closely with IEEE to bring to market devices for narrowband applications and other sub 1GHz spectrum. The IEEE 802.16t project specifies operation in licensed spectrum for mission critical entities that have a strong preference for private, licensed networks for their data communications needs. If you are interested in participating on this activity, please contact us.

The WiMAX Forum Working Groups are chartered to bring industry leaders together to collaborate and contribute to the development of technical specifications, technical requirements, harmonization of documents, and provide coordinated recommendations to advise the Forum. For more information on our Working Groups, please visit: **WiMAX Forum Working Groups**.

Participation by industry experts and organizations is crucial to influence and leverage the Working Groups activities, and contribute to the development of the market. If you are interested in participating in our Working Groups, please contact us at **info@WiMAXForum.org** and we will be happy to speak with you about this opportunity.

Working Group activity is integral to the success of the Forum, and your participation is important!

WiMAX FORUM NEWS

The WiMAX Forum weekly Newsbrief contains the summary of news from around the WiMAX ecosystem and is intended as a benefit to our community. If you do not yet receive the Newsbrief and wish to do so, please sign up here: **WiMAX Newsbrief**.

Below is a summary for the month of October:

- **What is a Certificate Authority (CA) in PKI? Here's the Ultimate Guide**
- **Safely transforming to a more resilient tomorrow**
- **SESAR 3 JU annual conference: making Europe's airspace fit for the digital age**
- **Strong demand for air travel amidst macroeconomic risks**
- **Spectrum compatibility for the future**
- **Eurocontrol Revises Forecast for Traffic Recovery Downward**
- **ICAO Assembly security and facilitation decisions to drive important post-pandemic enhancements to air transport system resilience**
- **Flight Prices Are Falling As Chinese Airlines Resume International Routes**
- **Application of Runway Status Light System in China**
- **EU announces first ever move to legislate cybersecurity for IoT**
- **FAA Invests $31M in Key Airport Cargo Projects to Strengthen Supply Chains**
- **Aviation Advocates Ask FCC to Permanently Limit 5G Around Airports**
- **ACI Asia-Pacific welcomes Japan, Chinese Taipei & Hong Kong's decision to ease travel curbs**
- **Peak travel season ends on a high note in August**

- **Despite current challenges, is there growth ahead for European aviation?**
- **ICAO welcomes important contributions from the Republic of Korea**
- **U.S. Airports Investing Billions in New Terminals, Facilities**
- **Air travel has not yet recovered from Covid-19 pandemic, Eurocontrol chief claims**
- **Creating cybersecurity awareness for IoT**
- **ICAO Innovation Fair highlights critical importance of frontier technologies to aviation sustainability and resilience**
- **IATA Chief Expects Airplane Ticket Prices to Increase**
- **Commercial aircraft services market to double in value by 2041**
- **COMAC C919 Achieves Certification in China**
- **Delhi Airport Is First In India To Be 5G Ready - Will It Affect Your Flights?**
- **EUROCONTROL Air Transport Innovation Network**
- **Critical elements of digital trust in an increasingly complex threat landscape**
- **Aviation recovery continues despite headwinds**
- **CANSO, NASA and the FAA collaboration**
- **Asia-Pacific likely to lose 'Top Civil Aviation Market' status on China, Japan restrictions**
- **ICAO/OECD study identifies avenues for enhancing regulatory governance of Latin American and Caribbean aviation**
- **Why the Internet of Things Needs PKI**
- **September 2022 WiMAX Forum Monthly Newsletter**

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