WiMAX FORUM® NEWSLETTER

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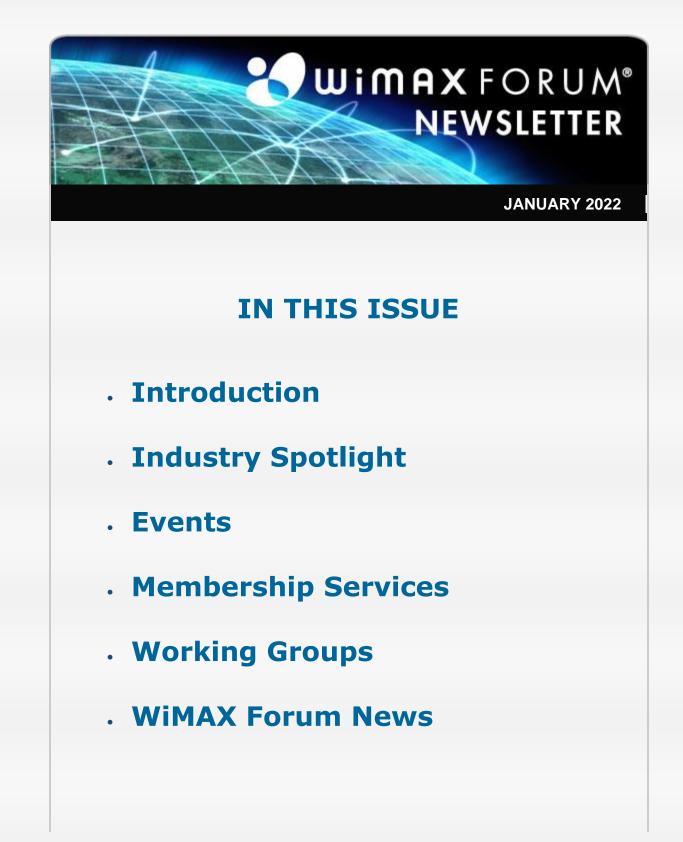
INTRODUCTION

Dear Respected Colleagues,

Happy New Year! We at the **WiMAX Forum** hope that you all had a wonderful holiday season! We believe 2022 will be a great year for the WiMAX ecosystem and our membership. We as an industry body, with the collaboration and support of our **Board of Directors**, **Member Companies**, **Working Group Representatives**, and industry experts will continue working together to expand our services, achieve milestones and grow the market for the WiMAX technology.

After almost two years into the pandemic and one of the biggest crises most of us have faced, the road to recovery has been turbulent and difficult. We are hoping for a smoother ride this year and we will continue to host and participate in industry events, meetings, and technical activities with the expectation that these markets will continue to increase in value as WiMAX's market share continues to expand.

We have seen important progress and concrete results from our activities in the industrial markets, which have provided excellent exposure, reception, and engagement. We have been able to continue the expansion of our services through collaboration and produce important work and advance the Aeronautical Mobile Airport Communication System (**AeroMACS**), **WiGRID**, and the **WiMAX** technology.

The WiMAX Forum is excited to announce another great event season this year. Through our events, speaking opportunities, and webinars, we are reaching out to diverse audiences in the WiMAX community in ways that will best serve all stakeholders. Here is the summary of an upcoming event that we are participating during the coming months:

• On **March 17, 2022** at 06:15 PM, the WiMAX Forum President, **Declan Byrne** will participation in the Panel Discussion **"Adjusting to the new normal – How the Covid-19 pandemic has changed digitalization strategies."** Join the panel discussion at the **Industry of Things World USA 2022** to get insights into the strategies and opinions of experts and to join the interactive discussion.

• On **March 18, 2022** at 01:15 PM, the WiMAX Forum President, Declan Byrne will discuss **"Why is security important to the Aviation Industry of Things?"** at the Industry of Things World USA - World Café Roundtable. Declan will go into more details on the Aviation Industry of Things and Aviation Security Requirements. The Industry of Things World USA will take place on March 17-18, 2022 at the Paradise Point Resort in San Diego,

California. For more information, please visit: **Industry of Things World USA 2022**.

• On **April 5-7, 2022** at the ICNS Conference, the WiMAX Forum President, Declan Byrne will present "Efficient Spectrum Management Practices for the Aviation Industry." As details concerning this event are finalized, we will be certain to keep you informed. For more information, please visit: **ICNS 2022**.

The WiMAX Forum will keep busy preparing for exciting meetings and events to raise awareness about the benefits of the WiMAX technology. We will continue attending, and participating at key industry events to bring the highest value to the WiMAX community. Please stay tuned 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** if you have any questions or comments and we would be happy to schedule a time to speak with you. We wish you a healthy and happy new year and we look forward to continuing to work with you in 2022!

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.

• **How does AeroMACS and WiMAX use PKI to ensure trust?**

AeroMACS is a wireless technology used by major international regulatory bodies to support the safety and regularity of flight. It enables ground-to-aircraft communications at airports internationally. Aircraft IoT sensors secured by PKI transmit the information to towers and planes ensuring that the communications are protected. WiMAX is also a broadband wireless technology that is used to provide broadband internet to large areas up to 30 miles compared to WiFi which only reaches up to 100 feet.

To read the article, please click here.

• AeroMACS Takes off at Airports Worldwide as the Aviation Industry Calls for Secure Networks

Airlines, airports and air traffic controllers can benefit from the protected, regulated and licensed aviation spectrum band from 5091 MHz to 5150 MHz, which has been designated on a worldwide basis by the International Telecommunication Union (ITU) to Aeronautical Mobile Airport Communication System (AeroMACS). Spectrum allocations dedicated and reserved to aviation applications are more secure and eliminates interference from other networks or devices.

To review the publication, 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.

Upcoming Events:

INDUSTRY OF THINGS WORLD USA	**AeroMACS Participation** **March 17-18, 2022** San Diego, California For more information visit: **Industry of Things World USA**
29th Convergence India Expo 23-25 March 2022 Pragati Maidan, New Delhi	**March 23-25, 2022** New Delhi, India For more information visit: **Convergence India**
ICNS CONFERENCE	**AeroMACS Participation** **April 5-7, 2022** Herndon, Virginia For more information visit: **ICNS**

	May 10-12, 2022 Barcelona, Spain For more information visit: **IoT Solutions World Congress**
	May 19-20, 2022 Virtual Event For more information visit: **Industry 4.0 Conference**

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.

Many activities are being scheduled to take place throughout the year and we need the help of your technical experts in these groups. This coming year, the Working Groups are collaborating to promote growth, innovation, and accelerate the adoption, deployment and expansion of the **AeroMACS** and **Smart Energy** markets, through product certification and various 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 on a globally.

The AWG has made significant progress last year and achieved important milestones. Additional AeroMACS products completed certification, and the AWG worked to harmonize Specifications with RTCA and EUROCAE. At the moment AWG members and the aviation industry have been collaborating to support and advance a number of key AeroMACS projects including: development and maintenance of 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 leverage AeroMACS as the standard selected to improve communications at the airport surface.

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 International Civil Aviation Organization (**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). Eonti is responsible to manage and implement AeroMACS PKI to ensure AeroMACS operational networks are secure. AeroMACS has proven to have the characteristics needed to greatly

improve operations at the airport surface, as the technology selected to support the safety and regularity of flights.

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 and ICAO. The AAC promotes effective public-private dialogue consistent with the AeroMACS Certificate Policy and ICAO policies, thereby helping promote optimum interoperability and trust among Participants. 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 January:

- **AeroMACS - WiMAX Forum Participation at ICNS 2022**

- **The "14th Five-Year Plan" of Civil Aviation is issued to accelerate the expansion of 5G applications**
- **Economic Impacts of COVID-19 on Civil Aviation**
- **Cybersecurity Outlook for 2022: Emerging Threats**
- **Airports Council Calls for 5G Deployment Delay**
- **Europe's aviation recovery 'will not unwind' in 2022**
- **China's aviation sector eyes profitability, 85% domestic traffic recovery in 2022**
- **FAA Administrator Steve Dickson Discusses 2022 Priorities for the Agency**
- **Operational Excellence, IoT-projects, security, predictive analytics & IT-ecosystem I The World Cafes at Industry of Things World USA March 17-18, 2022**
- **DigiCert Acquires IoT Cybersecurity Provider Mocana**
- **RTCA January 2022 Digest**
- **European air traffic to remain under 90% of pre-COVID levels in 2022: Eurocontrol**
- **FAA Statements on 5G**
- **Looking ahead to the new year: Airports' sustainable recovery**
- **Passenger traffic improves before Omicron strikes**
- **Beijing airport to see more flights during 2022 New Year holiday**
- **Industry, FAA Scramble To Clean Up FCC 5G 'Mess'**
- **Air traffic to near 2019 levels this year: Eurocontrol**
- **ASBU Implementation Monitoring Report**
- **Pandemic travel can be safe, but airports are an essential piece of the picture**
- **ESA chooses Leonardo for its Cyber-Security Operations Centre (C-SOC) which will protect European space resources**
- **FAA Issues New Radar Altimeter 5G C-Band Risk Assessment Request to Aviation Industry**
- **Crosspoint Capital Partners Completes Significant Strategic Investment in DigiCert in Partnership With Clearlake Capital and TA Associates**
- **SESAR JU 2021 highlights**
- **China aims to have over 270 civil airports by 2025**
- **The Major Cybersecurity Trends of 2022**
- **How does AeroMACS and WiMAX use PKI to ensure trust?**
- **Liu Weiwei, General Manager of ATG Products, ZTE Corporation**

- **View from the top**
- **US airlines warn 5G wireless could disrupt thousands of daily flights**
- **New SESAR 3 Joint Undertaking promises to be bigger, bolder, better**
- **IOT Solutions World Congress Gathers the Leaders in Digital Transformation of Industries**
- **FAA awards airports funding from Bipartisan Infrastructure Law**
- **EUROCONTROL Network Manager User Forum 2022**
- **December 2021 WiMAX Forum Monthly Newsletter**

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