



IN THIS ISSUE

- **Introduction**
- **Industry Spotlight**
- **Events**
- **Membership Services**
- **Working Groups**
- **WiMAX Forum News**

INTRODUCTION

Dear Respected Colleagues,

After some turbulence and months on the ground, 2021 is taking off and 2022 will be landing soon! We want to use this opportunity and the last Newsletter of the year to express our sincere gratitude for your unflagging support and enthusiasm throughout 2021. Your insights, wisdom and unceasing collaboration allowed us to produce important work and advance the Aeronautical Mobile Airport Communication System (**AeroMACS**), **WiGRID**, and the **WiMAX** technology.

Travel restrictions and environment uncertainties remained through most of 2021, and thanks to the generosity, commitment, contributions and participation of the **WiMAX Forum Board of Directors, Member Companies, Working Group Representatives**, we have been able to continue the expansion of our services, achieving significant milestones together through collaboration and growing the market for WiMAX technology.

Towards the end of year, when some of the travel restrictions were lifted, the WiMAX Forum leadership was finally able to participated in key industry events and meetings to continue advocating the capabilities of AeroMACS throughout the world. The results of these efforts demonstrate the immense potential and benefits in using AeroMACS to a variety of audiences that include aircraft maintenance, airlines, airport, ATC/ATM, government representatives, and others.

Last month, on November 6, during the ACI-NA Planning, Safety, Infrastructure, & Development (OPSID) Committee Workshop, **Chris Oswald** at ACI-NA and **Declan Byrne** at WiMAX Forum provided brief updates on the current efforts to get the FCC to approve use of AeroMACS wireless communications technology and reduce restrictions on the use of airside surface vehicle squitters to improve airport safety and improve airside data communications resiliency. The **ACI-NA Annual Conference and Exhibition** took place on November 6-9, in Reno, Nevada.



As this coming year promises further momentum, we will continue to push forward hosting and participating in a number of industrial events to bring the highest value to the WiMAX community as the market share expands. Here is the summary of an upcoming event that we are participating during the coming months:

- **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](#).

Through our participation in events, seminars, webinars, and other meetings we are reaching out to diverse audiences in ways that will best serve all stakeholders, and we will continue the pace throughout the new year. We will continue participating in important meetings and events, in person and virtually to bring the highest value to our Membership as the market share further expands. 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 and your family a joyful holiday season and a happy and healthy New Year!

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.

- **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 article, please click [here](#).

• **SESAR Solutions Catalogue 2021: Fourth edition**

The SESAR Joint Undertaking has published the fourth edition of the SESAR Solutions Catalogue, charting progress in developing the technological and procedural solutions needed for delivering the Digital European Sky. The solutions captured in this latest edition offer a pathway towards recovery, and a smarter and more sustainable air transport system in Europe.

To review the entire 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:

 <p>6th Annual Smart Cities Technology Symposium & Exhibition January 18-19, 2022 • 100% Virtual</p>	<p>January 18-19, 2022 Virtual For more information visit: Smart Cities International Symposium</p>
 <p>INDUSTRY OF THINGS WORLD USA</p>	<p>March 17-18, 2022 San Diego, California For more information visit: Industry of Things World USA</p>
 <p>29th Convergence India Expo 23-25 March 2022 Pragati Maidan, New Delhi</p>	<p>March 23-25, 2022 New Delhi, India For more information visit: Convergence India</p>

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

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 Working Groups** are key to the development of WiMAX technology and participation is encouraged for all WiMAX Forum Members. 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.

This year, the Working Groups focused on several activities 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.

In 2021, additional AeroMACS products completed certification, and the AWG worked to harmonize Specifications with RTCA and EUROCAE. We have a lot to get done in the new year and we need the help of your technical experts in these Working Groups.

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.

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. 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 commercially available to the industry planning AeroMACS deployments as well as serving as a PKI model for other Aviation technologies. 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.

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 December:

- [Boeing and Airbus warn US over 5G safety concerns](#)
- [World ATM Now Newspaper Day 1 Issue](#)
- [SESAR JU Consolidated Annual Activity Report](#)
- [Airport Officials Urge FCC AeroMACS Rules](#)
- [Update of AeroMACS Application and Specification in China](#)

- **TeSA Activity report**
- **AeroMACS authorized to operate in Brazil**
- **Webinar Recording: Catching Up With FAA Administrator Steve Dickson**
- **FCC Seeks to Refresh the Record on C-Band Spectrum for Drones**
- **EUROCONTROL Forecast Update 2021-2024**
- **345.9 billion won invested in navigation facilities... Increase the safety of the sky road**
- **The importance of government and industry partnerships in global cyber resilience**
- **Why Trust and Integrity Are Critical to IoT**
- **Senza Fili Webinar Recording - YouTube: Wireless connectivity in airports with AeroMACS**
- **SESAR Solutions Catalogue 2021: Fourth edition**
- **Fasten Your Seatbelt, AeroMACS Is Taking off to Go to World ATM Congress**
- **A-SMGCS Onboard Guidance System Implementation in Korea**
- **Leonardo's technology chosen to strengthen the Italian airport systems**
- **The application of AeroMACS, a new wireless communication technology, at domestic and foreign airports**
- **The important role of innovation in aviation's 'new normal' post-pandemic**
- **SPACE Brazil: Panel - AeroMACS airport broadband digital communication solution**
- **NTIA Spectrum Compendium 5030-5250 MHz**
- **Conception and exploration of smart civil aviation**
- **A Survey of Wireless Networks for Future Aerial COMMunications (FACOM)**
- **TeSA Activity report**
- **Post-COVID threats will persist and evolve: DigiCert Researchers**
- **ICNS Talks 2021**
- **Accelerate efforts to reconnect the world: ICAO UNWTO**
- **Senate Panel Approves Rosenworcel's Nomination to FCC**
- **FAA Statement on 5G**
- **China to sustain smooth operation of small, medium airports**
- **The Pandemic Cost Latin American Airports 775 Million Passengers**
- **Coalition Predicts 'Significant' Delays from 5G C-Band**
- **Leonardo accelerates the digitalization of the Aerospace Defence and Security sector. Genoa is the national industrial competence Hub**

- **How far has the evolving unmanned vehicle technology come? Trends in domestic and overseas unmanned vehicle frequency use**
- **EUROCONTROL data shows shorter and improved taxi-out times**
- **IATA tips on safely restoring travel**
- **An interview with ICAO Bureau Director Arun Mishra**
- **SESAR deployment drives efficient, modern ATM**
- **Supply chain chaos to persist through to next summer, Siemens chairman says**
- **House Democrats urge FCC to avoid potential air safety wireless danger**
- **Securing Innovation With A DevSecOps Culture**
- **The 2022 emerging threat landscape: cyber security**
- **ACI Global Traveller Survey shows passengers remain positive towards air travel**
- **RTCA November 2021 Digest**
- **Global airline industry to cut losses to US\$12b in 2022, says IATA**
- **Innovation and cooperation key to aviation's sustainable and resilient future - ICAO Council President**
- **China to promote further recovery of civil aviation industry**
- **Why The Single European Sky Has Failed To Take Off**
- **U.S. Senate Panel to Hold December 1 Hearing on FCC Nominee**
- **November 2021 WiMAX Forum Monthly Newsletter**



© 2021 WiMAX Forum®. "WiMAX", "Mobile WiMAX", "Fixed WiMAX", "WiMAX Forum", "WiMAX Certified", "WiMAX Forum Certified", "WiGRID", the WiMAX Forum logo, the WiMAX Forum Certified logo and the WiGRID logo are trademarks or registered trademarks of the WiMAX Forum. All other trademarks are the properties of their respective owners.

[SIGN UP](#) | [ARCHIVE](#) | [Read more at WiMAXForum.com](#)

