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WiMAX FORUM® NEWSLETTER

MAY 2022

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INTRODUCTION

Dear Respected Colleagues,

The **WiMAX Forum** with the collaboration and support of our **Board of Directors**, **Member Companies**, **Working Group Representatives** and industry experts continue producing important work to promote growth, innovation, increase awareness and advance the Aeronautical Mobile Airport Communication (**AeroMACS**), **WiGRID**, and the **WiMAX** technology.

Last month, the WiMAX Forum President, Declan Byrne presented "Efficient Spectrum Management Practices for the Aviation Industry" at the **ICNS Conference**. The spectrum allocations dedicated and reserved to aviation applications are more secure and eliminates interference from other networks or devices. The WiMAX Forum discussed how an efficient spectrum management practice for the aviation community can be achieved by a common-use of the spectrum. The ICNS Conference took place on April 5-7, 2022 in Herndon, Virginia.

This month, the WiMAX Forum received the registration approval for the AeroMACS WiMAX Forum Certified logo trademark. The WiMAX Forum offers certification for AeroMACS products at the AeroMACS Designated Certification Laboratory (ADCL) based on the requirements defined in aviation industry standards. For more information, please click **here**.

While we have fruitful conversations, raise awareness about our initiatives, achieve milestones through collaboration, we see concrete results from our activities with the expectation that the market share will expand and succeed. To foster a prosperous environment and future for the 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 WiMAX community in ways that will best serve all stakeholders.

Next month, on June 1-3, 2022 the WiMAX Forum Member Company **CelPlan Technologies** will be exhibiting at the **Connected Aviation Intelligence Summit**. Leonhard Korowajczuk - CEO/CTO - CelPlan Technologies will also make a presentation on "AeroMACS or How to Improve Customer Experience and Save the Aviation Industry Millions of Dollars." The Connected Aviation Intelligence Summit will take place at the Hyatt Regency in Reston, Virginia.

The WiMAX Forum will continue to increase awareness of, educate, and meet with industry leaders worldwide about implementing and developing AeroMACS and WiMAX networks in ways that will best serve all stakeholders. 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 at the WiMAX Forum wish you a wonderful end of month and 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.

• ICNS Tech-Talk: Internet Protocol Suite (IPS) With Boeing

Greg Saccone is a Technical Fellow, Airspace Operational Efficiency, at Boeing Research and Technology. Greg has 25+ years in the aeronautical datalink communication area. He works on advanced air traffic management concepts, research, operational trials, and implementation, specializing in data link communication and flight data processing. Regarding the IPS projects at Boeing, Greg leads both internal and joint industry research projects.

To view the complete presentation, please click here.

• Aeronautical Networks for In-Flight Connectivity: A Tutorial of the State-of-the-Art and Survey of Research Challenges

The aeronautical networks attract the attention of both industry and academia since Internet access during flights turns to the crucial demand from luxury with the evolving technology. This In-Flight Connectivity (IFC) necessity is currently dominated by the satellite connectivity and Air-to-Ground (A2G) network solutions. However, the high installation/equipment cost and latency of the satellite connectivity reduce its efficiency.

To read the complete 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:

	June 1-3, 2022 **AeroMACS Participation** Reston, VA For more information visit: **Connected Aviation Intelligence**
	July 25-26, 2022 San Diego, CA For more information visit: **Connected Manufacturing**

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 various key organizations collaborate to promote growth, accelerate the adoption, deployment and expansion of the **AeroMACS** and **Smart Energy** markets, through product innovation, certification and spectrum access solutions. The Working Groups are planning and developing important projects, scheduling a number of activities and we need the help of your technical experts in these groups as the market share expands and succeed.

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.

AWG members are working in various 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 maximize the potential for AeroMACS.

This month the WiMAX Forum, received the approval for the AeroMACS WiMAX Forum Certified logo trademark registration. The WiMAX Forum offers certification for AeroMACS products at the AeroMACS Designated Certification Laboratory (ADCL) based on the requirements defined in aviation industry standards.

AWG members and the aviation industry continue to cooperate to demonstrate the immense potential and benefits of AeroMACS as the technology selected to support the safety and regularity of flights. AWG members along with industry representatives have been collaborating to expand the AeroMACS profile to include additional technologies while continuing to harmonize RTCA and EUROCAE Specifications.

The AWG has started the process to propose the inclusion of other technologies within the AeroMACS Private Network Spectrum, while recommending the necessary modifications to existing requirements, specifications and standards. AWG members will participate this month at the International Civil Aviation Organization (**ICAO**) Data Communication Infrastructure Specific Working Group of the Communications Panel (CP-DCIWG) and present the working paper "Enhancement of AeroMACS SARPs and Technical Manual."

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 initiative is being recommended by AWG members to enable future communications infrastructure required to support current and emerging operating concepts.

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 May:

- **Connected Aviation Intelligence 2022**
- **Airline body IATA now sees industry recovery in 2023**
- **5G application of civil aviation in China, China and the United States have different regulatory attitudes**
- **Making an impact with Digital Trust for a better tomorrow**

- Latest air traffic forecasts illustrate encouraging recovery and higher growth in global air travel
- "Europe for Aviation" is back at the 2022 World ATM Congress
- Japan passes 195 million mobile customers milestone in March
- Latest ACI data provides news insights on airports' financial health during the first year of the pandemic
- DigiCert outlines its vision to help customers manage trust across their digital footprint
- FAA Invests Millions to Build Safer, More Accessible Airports Across the U.S.
- Podcast: IATA DG Willie Walsh On Challenges Airlines Are Facing Ramping Back Up
- Aviation aims to accelerate sustainable, safe, digital European sky
- Air traffic continues recovery across Europe
- Aviation Meeting in Riyadh Draws Emphasis on Enhancing Capabilities
- FCC's Spectrum Management Role Leads to a New Proceeding on Receiver Standards
- The future of 5G: What's left to do, and what lies ahead in 6G?
- CPDLC Coming of Age
- DigiCert Highlights Role of Digital Trust to Protect Against Cybersecurity Threats
- Passenger Traffic Recovery Continues in March
- The FAA Wants 5G Sensitive Aircraft Equipment Replaced
- This is a big way we can help States address critical aviation recovery priorities and rebuild capacities
- FCC taking a new look at one cause of spectrum squabbles: shoddy receivers
- The top 10 busiest airports in the world by passenger number
- IOT Solutions World Congress will feature a Testbed Area with real examples of disruptive solutions
- Change Needed: European Flight Numbers Will See 44% Growth By 2050
- FAA Begins Investing $1B of Bipartisan Infrastructure Law Funding into Air Traffic Control System
- IOT Solutions World Congress
- IATA Says Recovery Strong, Higher Airfares Inevitable

- **US looks to avoid another fight over 5G airwaves, this time with the Army**
- **No cheer as China expects 77% plunge in traffic during Labour Day holidays**
- **Airports anticipate and respond to financial market, customer, and community needs**
- **April 2022 WiMAX Forum Monthly Newsletter**

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