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## IN THIS ISSUE

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

## 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. 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.

Last month, the WiMAX Forum President, **Declan Byrne** discussed at the Industry of Things World USA - World Café Roundtable "**Why is security important to the Aviation Industry of Things?**" Discussions evolved around Aviation Industry of Things and Aviation Security Requirements. The Industry of Things World USA took place on March 17-18, 2022 at the Paradise Point Resort in San Diego, California.



This 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 at the Westin Dulles Airport Hotel, in Herndon, Virginia.



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.

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](http://WiMAXForum.org), [YouTube Channel](#) and Social Media ([Facebook](#), [LinkedIn](#) and [Twitter](#)).

Please reach out to us directly at [info@wimaxforum.org](mailto: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 great 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.

### • **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](#).**

### • **Conception and exploration of smart civil aviation**

With the continuous development of technology, human society has entered the era of artificial intelligence. The current intelligence is essentially to let machine learning simulate people, give full play to the role of data, and help humans deal with repetitive and complex tasks more automatically and

intelligently, which is an extension of human capabilities. On the other hand, intelligence represents a higher level.

**To read the complete article, 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><b>April 26 - 28, 2022</b> JW Marriott, Palm Springs, CA</p>	<p><b>April 26-28, 2022</b> Palm Springs, California For more information visit: <b>Field Service</b></p>
 <p><b>IOT SOLUTIONS</b> WORLD CONGRESS</p>	<p><b>May 10-12, 2022</b> Barcelona, Spain For more information visit: <b>IoT Solutions World Congress</b></p>
 <p><b>3rd Annual MarketsandMarkets</b> <b>Industry 4.0: Cybersecurity &amp; IIOT</b> <b>Virtual Conference</b> 23rd - 24th September 2021</p>	<p><b>May 19-20, 2022</b> Virtual Event For more information visit: <b>Industry 4.0 Conference</b></p>
 <p><b>Connected Manufacturing Forum</b></p>	<p><b>July 25-26, 2022</b> San Diego, CA For more information visit: <b>Connected Manufacturing</b></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](mailto: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.

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.

Working Group Members and various organizations collaborate 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 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 market share expands and succeed.

AWG members and the aviation industry have been collaborating to demonstrate the immense potential and benefits of AeroMACS as the technology selected to improve communications on the airport surface. AWG members and industry experts are working to expand the AeroMACS profile and include additional technologies while continuing to harmonize RTCA and EUROCAE Specifications.

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 is proposing the inclusion of other technologies within the AeroMACS Private Network Spectrum, while recommending the necessary modifications to existing requirements, specifications and standards. 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.

AWG members and industry, is also continuing its work to support and advance a number of other 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 maximize the potential for AeroMACS.

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). 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](mailto: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 April:**

- [Eurocontrol Predicts 84% Aviation Recovery Across 2022](#)
- [Beyond 5G: Ensuring Future Spectrum Compatibility](#)
- [Internet Protocol Suite \(IPS\) ecoDemonstrator Validation and Development Update](#)
- [Review: Standing Committee recommends multiple measures to address 'Security & Safety' issues at airports & in airline operations](#)
- [ACI World and EASA sign MoC to improve airport safety in Latin America](#)
- [Aviation In America And In Europe Are Oceans Apart](#)

- **IoT Solutions World Congress 2022 Gives New Impetus to the Digital Transformation of Industries**
- **Air transportation in Latin America is recovering**
- **EUROCONTROL Aviation Outlook 2050 Main Report**
- **Lessons Aviation Could Learn To Avoid Another Pandemic Related Traffic Collapse**
- **Air traffic resumed upward trajectory in February; mixed outlook now lies ahead**
- **It's Not Too Early to Prepare for 6G**
- **U.S. Airlines Continue Struggle to Cope with Increased Demand**
- **EUR 194 million made available in first Digital European Sky calls**
- **The 10 Coolest IoT Security Companies: The 2022 Internet Of Things 50**
- **Industry 4.0 Conference**
- **ICNS Tech-Talk Boeing Webinar**
- **EUROCONTROL expects 9.3M flights in 2022**
- **Beyond 5G: Ensuring Future Spectrum Compatibility**
- **Passenger Recovery Accelerates in February**
- **FCC Remains Deadlocked With Gigi Sohn's Nomination Still In Limbo**
- **CAAC Issues 2021 Statistical Bulletin of Civil Airport Development in China**
- **Receiver Standards Can Help Address 5G, Aviation Interference Concerns, Experts Say**
- **Field Service in Palm Springs**
- **ICNS TechTalk European Strategy on Trajectory Based Operations (TBO)**
- **Half the World Has Reopened to Travel, IATA Says**
- **More government support needed for Asia Pacific air travel recovery**
- **An interview with ICAO Bureau Director Michael Gill**
- **Europe, China To Increase Cooperation On Aviation Environmental Issues**
- **FCC, NTIA Hold First Monthly Meeting on Spectrum Coordination**



- **Ann Dunkin, CIO of US Department of Energy to Headline at IoT Solutions World Congress**
- **March 2022 WiMAX Forum Monthly Newsletter**



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