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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 and advance the Aeronautical Mobile Airport Communication (**AeroMACS**), **WiGRID**, and the **WiMAX** technology.

While we achieve important milestones and market growth, we see concrete results from our efforts and activities. We will continue working to leverage our services and position the WiMAX technology with the expectation that the market share will expand and succeed.

This 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.



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. Here is the summary of an upcoming event that we are participating during the coming months:



- 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 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 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.

• **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](#).

• **CNS/ATM Part 2 New Entrants**

In the domain of air traffic management (ATM), communication, navigation, and surveillance (CNS) infrastructure is the foundation for the provision of air navigation services. As technology evolves, so must resilience, interoperability and the inclusion of new entrants. In this second part of our story on the evolution of CNS technology, we'll review the resilience of the CNS system, civil-military interoperability, and the progress for the inclusion of unmanned and suborbital operations as new entrants.

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>AeroMACS Participation April 5-7, 2022 Herndon, Virginia For more information visit: ICNS</p>
	<p>April 26-28, 2022 Palm Springs, California For more information visit: Field Service</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>
	<p>July 25-26, 2022 San Diego, CA For more information visit: Connected Manufacturing</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 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.

The Working Groups have been planning their projects and scheduling a number of activities to take place throughout the year and we need the help of your technical experts in these groups. Working Group Members collaborate with various organizations 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.

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 currently discussing AeroMACS requirements, specifications and standards to expand AeroMACS to be open to additional technology implementations within the AeroMACS Private Network Spectrum. 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 technology profile selected to support the safety and regularity of flights.

The AWG 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 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). 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 March:

- [Aeronautical Networks for In-Flight Connectivity: A Tutorial of the State-of-the-Art and Survey of Research Challenges](#)
- [More planes, passengers in skies by 2024—IATA](#)
- [The Latest 5G C-Band Interference on Radio Altimeters Research, Testing and Technology Updates](#)
- [Aviation sector will need thousands of employees in the coming years](#)
- [FCC, NTIA name representatives for spectrum tie-up](#)
- [Three Keys to a Successful Zero-trust Implementation](#)
- [CAAC Holds Analysis Meeting on Operation Safety of March](#)
- [Connected Manufacturing](#)
- [How Security Can Keep Pace as IT and OT Converge](#)
- [March RTCA Digest](#)
- [Progress in Opening the World to Travel](#)
- [Business Travel Is Expected to Accelerate in 2022](#)
- [ICAO Council adopts a new set of international SARPs](#)
- [Aviation groups lobby for the termination of Covid restrictions in Europe](#)
- [Omicron forces flight diversions, cancellations in China](#)
- [EUROCONTROL Data Snapshot on top global airlines](#)
- [Conception and exploration of smart civil aviation](#)
- [Air Travel Sees Strong Demand Recovery in January but Impacted by Omicron](#)
- [IFATCA Weekly Electronic Newsletter](#)
- [FCC, NTIA Vow to Fix Spectrum Allocation Turmoil](#)

- **Remarks by Siemens USA CEO Barbara Humpton at White House Announcement for Siemens USA Manufacturing Investment**
- **Microsoft 365 Services Getting Root Certificate Authority Switch in 2025**
- **ACI Europe: Passenger Volumes in January 2022 Remained 45% Below Pre-Pandemic Levels**
- **Industry 4.0 Conference 2022**
- **Why is security important to the Aviation Industry of Things?**
- **Publication spotlight: The ICAO Annexes to the Convention on International Civil Aviation**
- **Air Passenger Numbers to Recover in 2024**
- **FAA's Latest 5G Airworthiness Directive Revises Landing Requirements for Most 737s**
- **Executive Spotlight With Siemens Government Technologies' Matthew Madalo Highlights CMMC, Other Compliance Standards; Company Core Values**
- **Potential turning point in the recovery of travel as latest air traffic data revealed**
- **Strengthening Cybersecurity For Today's Remote Workforce**
- **Biden's Big Tech regulators pass key hurdle before U.S. Senate vote**
- **A Look at 23 Key Cyber Crime Statistics Data From 2021 and 2022**
- **The most expensive airport projects in 2021**
- **Why is the US Conservative on ATC Innovation?**
- **Federal Agencies Agree to Better Spectrum Coordination After 5G-FAA Debacle**
- **IATA: Sharp Increase in Airplane Tickets' Sale as Restrictions Are Eased Worldwide**
- **China to step up support for civil aviation in 2022**
- **Renewed optimism despite traffic being well below pre-COVID forecasts**
- **Convergence India 2022**
- **February 2022 WiMAX Forum Monthly Newsletter**



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