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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 as an industry body, with the collaboration and participation of our **Board of Directors**, **Member Companies**, **Working Group Representatives**, and industry experts continue working towards the advancement of Aeronautical Mobile Airport Communication System (**AeroMACS**), **WiGRID**, and the **WiMAX** technology. We believe 2021 will be a great year for the ecosystem and our membership.

The WiMAX Forum is excited to continue expanding its services, promoting several activities to our global community and positioning the technology with the expectation that the WiMAX's market share will expand and succeed in this ever-changing global environment. We have been seeing concrete results from our activities in the industrial markets particularly through AeroMACS and Smart Energy.

Early next month, on **February 4, 2021 at 8 am PDT**, at the Sparring Partners Webinar "Wireless connectivity in airports with AeroMACS," **Declan Byrne**, WiMAX Forum, Pedro Ponte, **Lisbon Airport**, Antonio Correias, **Skymanatics**, and Monica Paolini, **Senza Fili**, will talk about the role of AeroMACS in private networks in airports and reflect on the lessons learned from initial deployments. For more information and registration please visit: <https://senzafili.com/webinars/wireless-connectivity-in-airports-with-aeromacs/>.

As the year promises further momentum, we will continue to push forward to bring the highest value to the WiMAX community as the market share expands. Our focus has been to share key lessons, concrete knowledge, and work together for the benefit of the industry. Here is the summary of an upcoming event that we are participating during the coming months:

- **On April 19, 2021**, the WiMAX Forum plans to participate in the ICNS Virtual Conference. As details are finalized, we will be certain to keep you informed. For more information, please visit: <https://i-cns.org/>.
- **On October 26, 2021**, the WiMAX Forum plans to participate in the World ATM Congress in Madrid. As details are finalized, we will be certain to keep you informed. For more information, please visit: <https://www.worldatmcongress.org/home>.

The WiMAX Forum will keep busy preparing for exciting meetings and events in person and virtually to raise awareness about the benefits of the AeroMACS and WiMAX technology. Please stay tuned and for more information, visit: [WiMAXForum.com](http://WiMAXForum.com).

In 2020, the WiMAX Forum hosted Virtual Presentation Sessions prepared to provide relevant details and keep the audience informed on the latest **AeroMACS**, and **WiMAX Forum** developments, worldwide deployments and applications, security through the WiMAX Forum Public Key Infrastructure (PKI) Policy and other topics. If you haven't seen the videos yet, the sessions

are available in multiple online channels including the WiMAX Forum [Website](#), [YouTube](#) and [Social Media](#). To review all presentations, please click at the following link: <http://wimaxforum.org/Page/News/Videos>.

As a reminder the WiMAX Forum is currently in the middle of its renewal season. Many of our member companies should be hearing shortly from our membership and finance teams to make certain that the next few months go smoothly for everyone, and they will be happy to answer any questions that you have. For more information regarding your membership status, please email [Membership@wimaxforum.org](mailto:Membership@wimaxforum.org).

The **WiMAX Forum** is well positioned to face any future challenges, develop opportunities to grow business and leverage its stakeholders. Please reach out to us if you have any questions or comments. We wish you a healthy and happy new year and we look forward to continuing to work with you in 2021!

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.

### **• NASA Helps Bring Airport Communications into the Digital Age**

Some of the best entertainment at the airport is all the action outside the window. Loaded luggage carriers zip past on their way to planes. Fuel trucks come and go. Catering trucks restock galleys. During winter, de-icing crews and snowplows add to the bustle. This organized chaos is overseen by the ground-control managers as part of an airport-wide effort to ensure the safety of all ground operations. And as air travel has increased, the challenge of keeping track of all the moving parts has only grown.

**To read complete publication, please click [here](#).**

### **• The Standardized Solution for the Airport Surface Communications Worldwide**

In our increasingly digitally connected world, the existing airport communications systems are greatly outdated, with infrastructure limitations that make supporting current airport traffic demands very challenging. Moreover, it is clear that these limitations will certainly not be sufficient

to address future requirements. The limited data capacity of current ground communications networks places a burden on applications and their functionality. Change is needed, and the AeroMACS system represents perhaps the best available solution.

**To read 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:

 <p>5th Annual <b>Smart Cities International Virtual Symposium</b> February 23-24, 2021 • 100% Online</p>	<p><b>February 23-24, 2021</b> Virtual Symposium For more information visit: <b>Smart Cities International</b></p>
 <p><b>6<sup>th</sup> Smart Cities India 2021 Expo</b></p>	<p><b>March 24-26, 2021</b> New Delhi, India For more information visit: <b>6th Smart Cities India</b></p>
 <p><b>Connected Manufacturing Forum</b></p>	<p><b>July 29-30, 2021</b> Austin, TX For more information visit: <b>Connected Manufacturing</b></p>
 <p><b>IOT SOLUTIONS WORLD CONGRESS</b></p>	<p><b>October 5-7, 2021</b> Barcelona, Spain For more information visit: <b>IoT Solutions World Congress</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 **[Membership@wimaxforum.org](mailto:Membership@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 organizes its technical activities through a number of **Technical Working Groups**, that are the key to the development of WiMAX technology. The Working Groups are currently focused on a number of activities related to **AeroMACS, Smart Energy**, through product certification and various spectrum access solutions and participation is open to all WiMAX Forum Members.

In 2020, AeroMACS gained momentum and added value to the broader aviation industry. The Aviation Working Group (AWG) members and key players have been able to demonstrate the immense potential and benefits of AeroMACS as the technology selected to support the safety and regularity of flights.

The AWG, through collaboration of its members and industry, have made significant progress on several technical projects including: the development and maintenance of specifications related to AeroMACS Product Certification, AeroMACS Public Key Infrastructure (PKI), FCC AeroMACS Petition for Rulemaking, Online Conferences, Webinars and other initiatives to support AeroMACS as the standard selected to improve communications at the airport surface.

In 2020, Siemens became the first AeroMACS Equipment Manufacturer to receive complete AeroMACS certification, and at this time other manufacturers are in the AeroMACS Designated Certification Laboratory (**ADCL**) completing testing to receive full AeroMACS Certification. The AeroMACS certification process is based on a set of requirements and standards defined by the aviation industry.

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 PKI is commercially available and an overview of the AeroMACS PKI process is available here: **[AeroMACS PKI Users Overview](#)**.

The WiMAX Forum and Smart Energy Working Group (SEWG) members are working 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 is 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: **[www.wimaxforum.org/Page/About/Working-Groups](http://www.wimaxforum.org/Page/About/Working-Groups)**.

It is a crucial time for your organization to participate, 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 to the WiMAX community!**

## **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:**

- **European ATM Master Plan – Implementation View**
- **DigiCert ONE Receives IoT Breakthrough Security Product of the Year Award**
- **Innovation, Challenges Fluctuate as COVID-19 Uncertainty Continues**
- **Siemens Preliminary operating results for first quarter of fiscal 2021 significantly above market expectations**
- **2020 passenger totals drop 60 percent as COVID-19 assault on international mobility continues**
- **Smart Cities International Virtual Symposium**
- **RTCA January 2021 Digest**
- **Europe continues to suffer from depressed demand**
- **China's civil air transport sector achieves 10 consecutive years of safe flight**
- **DigiCert CTO on digital acceleration, customer requirements and being future-focused**
- **EUROCONTROL and partners issue recommendations to prevent runway excursions**
- **Airport Infrastructure – Everything You Need To Know**
- **Executive Cybersecurity Forum for Manufacturers**
- **U.S. Airlines Carried 12% More Cargo in November 2020 than November 2019**
- **Civil flight passengers reaching 420 million in 2020: CAAC**
- **US airports to lose at least \$17bn, reports ACI-NA**
- **Cyber ignorance could cause detrimental damage for travel sector**
- **FCC chief Pai urges spectrum policy overhaul**
- **Top Security predictions for 2021 by DigiCert**
- **How the tech strategy of IATA's CIO is aiding pandemic recovery in aviation**
- **Shanghai's Third Airport – What Is The Latest?**
- **Air traffic back down to 1980s levels**
- **Covid-19 aids Nepal's net spread**
- **Passenger Demand Recovery Grinds to a Halt in November**
- **Recovery in flight numbers not likely until 2026: Eurocontrol**
- **Airports Council Announces New Leadership**
- **FAA and NASA Sign MOU to Strengthen Partnership in Commercial Space Activities**
- **Wireless connectivity in airports with AeroMACS - Registration Open Sparring Partners Webinar**
- **AVSEC2020: ICAO inaugurates 2021 as Year of Security Culture**
- **DigiCert Solves Challenge of PKI Management in the IoT Device Supply Chain and at the Edge with New IoT Device Manager Release**

- **What COVID-19 did to European Aviation in 2020, and Outlook 2021**
- **Leonardo: Deep Dive Into The Main Programs Of One Of The Largest Defense Contractors In The World**
- **Stimulating the market for post-COVID travel**
- **Beeline trialling FWA in Kazakhstan**
- **December 2020 WiMAX Forum Monthly Newsletter**



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