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## INTRODUCTION

Dear Respected Colleagues,

The **WiMAX Forum** with the collaboration and participation of its **Board of Directors, Member Companies, Working Group Representatives**, and industry leaders continues in a fast pace producing important work to increase awareness, support and advance the Aeronautical Mobile Airport Communication System (**AeroMACS**), **WiGRID**, and the **WiMAX** technology. We have much going on, which we feel is directly relevant and value-added to our Members and industry.

The Federal Communications Commission (**FCC**) voted in June to adopt a Notice of Proposed Rulemaking (**NPRM**) proposing service rules for AeroMACS. Many of the proposals included in the NPRM are based on industry-consensus proposals the WiMAX Forum filed with the FCC in 2017 and will help ensure timely deployment and enable broadband communications capability to support airport surface operations. The NPRM proposes specific technical and licensing rules that are required before commercial AeroMACS operations can become routine at U.S. airports.

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. Our focus has been to share key lessons, concrete knowledge, and work together for the benefit of the industry.

Last month, at the **ATCA Annual Conference and Exposition**, WiMAX Forum President, **Declan Byrne** hosted a presentation on the latest AeroMACS developments. The presentation included information on worldwide deployments, current applications, successful implementations, FCC Notice of Proposed Rulemaking (NPRM) and other details. Also, last month an Open Day for the **SESAR 2020 PJ.14 EECNS** (Essential and Efficient Communication, Navigation and Surveillance Integrated System) communication solutions was held at EUROCONTROL's Brussels headquarters. AeroMACS was highlighted by a presentation made by **Leonardo**.

This month, the WiMAX Forum President, Declan Byrne hosted a presentation at the **ICAO SAM implementation Meeting (SAM/IG/24)** held in Lima, Peru. Byrne presented the first Latin America AeroMACS development in Brazil and the AeroMACS progress around the world.



Our involvement in these events has proven to be the right strategy, fostering a prosperous environment and future for the WiMAX ecosystem. We will continue to increase awareness of, educate, and meet with industry leaders worldwide regarding implementing and developing WiMAX,

AeroMACS, and WiGRID networks in ways that will best serve all stakeholders. Through our events, speaking opportunities, seminars, and webinars, we are reaching out to diverse audiences in the WiMAX community.

- **On March 11, 2020 at 2:00PM** local time, the WiMAX Forum will host **AeroMACS 2020 – Madrid**, a session with AeroMACS presentations at the World ATM Congress - Aireon Spotlight Stage - Feria de Madrid Convention Centre (IFEMA). The presentations will focus on supporting the global Aviation Community in managing profitable development and growth of AeroMACS networks.

- **On March 10-12, 2020** at the **World ATM Congress Conference & Exhibition**, the WiMAX Forum will exhibit AeroMACS at **Booth 117** in the **IFEMA Exhibition Hall**. If you would pre-scheduled a meeting time with us, please email [info@WiMAXForum.org](mailto:info@WiMAXForum.org) and we will be glad to schedule a time to speak with you.

Please note registration is required in order to attend the World ATM Congress and the AeroMACS 2020 - Madrid. For registration, please click the following link:

<https://worldatm2020.completereg.com/index.aspx>

We are seeing concrete results from our activities in the industrial markets particularly through AeroMACS and Smart Energy events, which have provided excellent exposure, reception, and engagement. For more information about our events, please visit: **WiMAX Forum Events**.

Please reach out to us if you have any questions or comments. Enjoy the rest of the month and we 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.

- **SESAR JU Members Showcases Maturity of Datalink Communication Solutions**

On 23 October, SESAR JU member and partners held an open day in Brussels bringing together a wide audience of stakeholders to present the progress in datalink communications achieved during the first phase of SESAR 2020 research and innovation. The open day presented the work coming out of the SESAR 2020 project PJ.14 EECNS on the future technologies emerging in the domain communications, navigation and surveillance domains to manage future operational services, such as 4D trajectory management.

To review the details and presentations, please click [here](#).

- **Beyond the Mandates**

Equipping your aircraft to take advantage of future technology. The FAA's Next Gen and EASA's SESAR (Single European Sky ATM Research programs are continuously working toward updating air traffic technology to meet ICAO's Global Air Navigation Plan (GANP). While many aircraft have already updated their avionics to meet the looming 2020 ADS-B mandate (January 1 in U.S., June 7 in Europe, and various dates for other countries), more technology changes are on the horizon.

To view the 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.

### Featured Events:

 <p>WIMAX FORUM® <b>AeroMACS</b> © WATMC   MADRID, SPAIN</p>	<p>AeroMACS 2020 - Madrid <b>March 11 at 14:00 to 16:00</b> AeroMACS Exhibition Madrid, Spain For more information visit: <b>AeroMACS at World ATM Congress</b></p>
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### Upcoming Events:

<p><b>4th Smart Cities International Symposium</b> January 21-23, 2020 • Chicago</p> 	<p>January 21-23, 2020 Chicago, IL For more information visit: <b>Smart Cities International Symposium</b></p>
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 <p>28<sup>th</sup> <b>Convergence India 2020</b> Digital India - Connecting the Unconnected <b>19 - 21 FEBRUARY 2020</b> Pragati Maidan, New Delhi, India</p>	<p>February 19-21, 2020 New Delhi, India For more information visit: <b>Convergence India</b></p>
 <p><b>Internet of Things</b> India expo Converging • Connecting • Automating</p> <p><b>19 - 21 February 2020</b> Pragati Maidan, New Delhi</p>	<p>February 19-21, 2020 New Delhi, India For more information visit: <b>Internet of Things India expo</b></p>
 <p><b>World ATM Congress 2020</b> A CANSO partnership with ATCA <b>10-12 March 2020</b> Madrid, Spain IFEMA, Feria de Madrid</p>	<p>March 10-12, 2020 Madrid, Spain For more information visit: <b>World ATM Congress</b></p>
 <p><b>BLOCKCHAIN 2020</b> March 18-19, 2020   Las Vegas, USA blockchain@annualmeetings.net</p>	<p>March 18-19, 2020 Las Vegas, NV For more information visit: <b>Blockchain and Data Science</b></p>
 <p><b>FIELD SERVICE</b></p>	<p>April 21-24, 2020 Palm Springs, California For more information visit: <b>Field Service Palm Springs</b></p>
 <p><b>6<sup>th</sup> Smart Cities India 2020 Expo</b></p> <p><b>20-22 MAY 2020</b> Pragati Maidan, New Delhi, India</p>	<p>May 20-22, 2020 New Delhi, India For more information visit: <b>6th Smart Cities India</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 would like to extend a special welcome to the new members for 2019:

- **German Aerospace Center (DLR)**
- **Ondas Networks**

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 Working Groups** are key to the development of WiMAX technology. The WiMAX Forum organizes its technical activities through a number of Working Groups that produce technical requirements, develop technical specifications, and advise the forum. Several activities are being scheduled and we need the help of your technical experts in these groups. It is a crucial time for your organization 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 glad to speak with you about this opportunity.

The Working Groups are the currently focused on **AeroMACS, Smart Energy**, product certification and various spectrum access solutions. The Working Groups are chartered by the WiMAX Forum to bring together content experts from member companies to collaborate and contribute to specification development, harmonize documents, and perform other tasks that the WiMAX Forum has determined to be necessary or useful.

The Aviation Working Group (AWG) and the AWG Certification Task Group (CTG) have been achieving important milestones and making significant progress on several technical projects to support AeroMACS as the standard selected to improve the safety and regularity of flights. The AWG and CTG members are collaborating on the development of AeroMACS Product Conformance Certification, AeroMACS Public Key Infrastructure (PKI), FCC AeroMACS Petition for Rulemaking, and other initiatives.

Additionally, the AWG CTG has completed and approved the IOT procedures to support the testing and certification of products in support of an overall WiMAX Forum certification compliance for AeroMACS based on international approved standards. The CTG has completed and published the WiMAX Forum® AeroMACS Test Suite Structure and Test Purposes (TSS&TP) for PCT and RCT Specifications to test for conformance to industry requirements.

The WiMAX Forum, **ICAO**, other regulatory members and key industry stakeholders have formed the AeroMACS Advisory Council (AAC). The AAC is a collaborative body that will promote effective public-private dialogue and will consistent with the AeroMACS Certificate Policy and ICAO policies, provide strategic guidance and oversight for AeroMACS PKI, thereby helping promote optimum interoperability and trust among participants.

The WiMAX Forum has partnered with **Eonti** to manage and implement **AeroMACS PKI** as the Management Authority (MA). The MA has brought on the first Certificate Authority (CA) to make AeroMACS PKI commercially available to make AeroMACS operational networks secure. An overview of the AeroMACS PKI process is available here: **[AeroMACS PKI Users Overview](#)**.

The Smart Energy Working Group (SEWG) members are working with IEEE to bring to market devices for narrowband applications and other sub 1GHz spectrum. If you are interested in participating in this activity, please contact us at **[info@WiMAXForum.org](mailto:info@WiMAXForum.org)** and we will be glad to speak with you about this opportunity. The next SEWG meeting will be scheduled shortly, as the details are finalized, we will be certain to keep you informed.

You can learn more about the Working Group activities by visiting the member's workspace area to view the outcomes of recent Working Group sessions or join groups to receive emails related to that group's activities. To find more information on our Working Groups, please visit: **[www.wimaxforum.org/Page/About/Working-Groups](http://www.wimaxforum.org/Page/About/Working-Groups)**.

**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 November:**

- **[ICNS Call for Participation 2020](#)**
- **[Cybersecurity and Aviation: Combatting the Key Threats](#)**
- **[Chinese Airport Industry Exponential Growth](#)**

- **U.S. Transportation Secretary Elaine L. Chao Announces \$485 Million to 108 Airports in 48 States**
- **DigiCert Trends and Threats Briefing**
- **World ATM Congress**
- **WRC-19 Defines New Satellite, Rail, Marine Communications Capabilities**
- **Safety Measures Discussed by ICAO, EASA and South East Asian Officials**
- **Seminar on Transport Aviation Operational Safety 2019 Held**
- **SESAR JU Members Showcases Maturity of Datalink Communication Solutions**
- **Airlines Electronic Engineering Committee Approves Changes to Ease L-Band Satcom, IP Communications**
- **Cybersecurity High on ATC Agenda**
- **RTCA Digest Fall 2019**
- **Sectigo Celebrates Highly Successful First Anniversary with Enterprise Revenues Nearly Doubled Since Carve-out, Industry-first Cybersecurity Innovations, Awards, and Market Leadership**
- **ICAO: Middle East One of the Fastest-Growing Regions for Air Traffic**
- **Convergence India**
- **China's Civil Airports Report Steady Development in past Decade**
- **AeroMACS Enabling Safe and Secure Connectivity Worldwide**
- **BDS/AeroMACS Integrated Positioning Algorithm for Airport Surface Surveillance**
- **Mission Critical Security and the Rise of the Private Internet of Things**
- **Aviation Industry Collaboration Crucial to Accommodating Demand**
- **IoT Solutions World Congress Shows the Way to Smarter, More Secure Connectivity**
- **Senate Approves \$17.7B FAA Budget for FY2020**
- **Japan Adds Nearly 1.3 Mln Mobile Subscribers in September Quarter**
- **Leonardo: Fourth Edition of the "Compliance Council" Dedicated to "Integrity in Business"**
- **Tech Investment from Aviation Continues, Cybersecurity and Cloud the Top Priorities**
- **ACI World Study Predicts Global Air Traffic to Double by 2037**
- **WRC-19 Begins with Focus on Emerging Technology Spectrum**
- **IoT Application Security Challenges and Solutions**
- **WISPA Opposes CMA-Level Bidding for Priority Access Licenses**
- **What Is the Provision of IoT Security Explained by DigiCert Executives?**

- **4th Annual Smart Cities International Symposium & Exhibition**
- **The 40th Session of ICAO Assembly Kicks Off**
- **Siemens Announces New Management Team for Siemens Energy**
- **October 2019 WiMAX Forum Monthly Newsletter**



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