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WiMAX FORUM® NEWSLETTER

OCTOBER 2019

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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, the WiMAX Forum attended the **38th AIAA/IEEE Digital Avionics Systems Conference (DASC)** in San Diego, California.

This 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, this 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**.

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 **November 7, 2019**, the WiMAX Forum President, Declan Byrne will host a presentation at the **ICAO SAM implementation Meeting (SAM/IG/24)** held in Lima, Peru. Byrne will present the first Latin America AeroMACS development in Brazil and the AeroMACS progress around the world.

• **On March 11, 2020 at 4:00PM** 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** 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.

• **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.

• Siemens Deploys Innovative Communication System at Tom Jobim Airport in Brazil

A leader in innovation and digital solutions for the market, Siemens is rolling out a new operational communications and data digitization system at RIOgaleao - Tom Jobim International Airport, in Rio de Janeiro, Brazil. Called AeroMACS (Aeronautical Mobile Airport Communication System), this mobile broadband communications technology transmits real-time data and images to airport operators, facilitating and optimizing management of the entire site, which receives about 15 million passengers and operates over 50,000 flights a year.

Please click here to read the press release, and click here to view the project video at YouTube.

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:

WiMAX FORUM® AeroMACS @WATMC | MADRID, SPAIN	AeroMACS 2020 - Madrid **March 11 at 14:00 to 16:00** AeroMACS Exhibition Madrid, Spain For more information visit: **AeroMACS at World ATM Congress**

Upcoming Events:

Smart Home Summit	November 18-20, 2019 San Francisco, CA For more information visit: **Smart Home Summit**
28th Convergence India 2020 Digital India - Connecting the Unconnected 19 - 21 FEBRUARY 2020 Pragati Maidan, New Delhi, India	February 19-21, 2020 New Delhi, India For more information visit: **Convergence India**

	February 19-21, 2020 New Delhi, India For more information visit: **Internet of Things India expo**
	March 10-12, 2020 Madrid, Spain For more information visit: **World ATM Congress**
	March 18-19, 2020 Las Vegas, NV For more information visit: **Blockchain and Data Science**
	May 20-22, 2020 New Delhi, India For more information visit: **6th Smart Cities India**

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**.

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 Working Groups that produce technical requirements, develop technical specifications, and advise the forum. 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 **WiMAX Forum Working Groups** are key to the development of WiMAX technology.

The Working Groups are the currently focused on **AeroMACS**, **Smart Energy**, product certification and various spectrum access solutions. 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** and we will be glad to speak with you about this opportunity.

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

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** and key industry stakeholders collaborate in the oversight of AeroMACS PKI for the ecosystem in the AeroMACS Advisory Council (AAC). 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**.

For narrowband applications, the Smart Energy Working Group (SEWG) members are working with IEEE to bring to market devices for this and other sub 1GHz spectrum. If you are interested in

participating in this activity, please contact us at **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**.

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 October:

- **Aviation Sector Resolves to Protect Industry from Cyber Threats**
- **IoT Security Threats Are Already on Our Side**
- **FAA Chief Data Officer Wants to Pace Development**
- **Root Causes Podcast: Global Energy Grids Under Cyber Attack**
- **Honeywell's 28th Annual Global Business Aviation Outlook**
- **IoTSWC Takes Connectivity to the Next Level, Including IoT, Artificial Intelligence and Blockchain**
- **Airlines Doing 'a Great Job' as Load Factor Hits Record High for August**
- **United Nations' Turbulent Aviation Assembly**
- **U.S. Secretary of Transportation Elaine L. Chao Announces Appointees to Aviation Rulemaking Advisory Committee**
- **European ATM Master Plan Implementation view**
- **What Should Proper IoT Regulation Look Like?**
- **Implementation of Revised ICAO Global Air Navigation and Safety Plans Crucial to Development of Aviation Network**
- **Air Passenger Growth Improves but Trend Remains Moderate: IATA**
- **Smart Home Summit**
- **Siemens to Invest 500 Million Euros in Colombia Energy, Infrastructure**
- **Leonardo: Launched the Second Group of the ELITE Leonardo Lounge**
- **Number of General Aviation Airports in China Reaches 239**
- **AeroMACS Presentation at ATCA Annual**
- **Turning Bottlenecks into Opportunities**
- **Build or Buy: What to Consider When Deploying On-Premise or Cloud-Based PKI**
- **Aviation Industry Needs to Crank up IT Spend**

- **Sectigo and SPYRUS Partner to Combat Ransomware Attacks with Fully Automated Digital Identity Management**
- **NIST Asks for Energy Sector IIoT Security Products, Services**
- **Homeland Security, DoD, Transportation Officials Focus on Aviation Cyber Security**
- **Industry Monitor - September 2019**
- **Critical Infrastructure Security and Resilience - Today and Tomorrow**
- **Siemens Advances in Brazil with Focus on Technology and Environmental Impact Reduction**
- **Standards Oversight Committee Acts on Safety and Emerging Technologies**
- **Sectigo Wins Cybersecurity Breakthrough Award for IoT Device Security Solution of the Year**
- **The Future of Air Traffic with Peter Dumont, President and CEO of ATCA**
- **CelPlan Is Appointed as One of the 20 Most Promising Technology Solution Providers for Telecom Industry in 2019**
- **ACI World Labels Cyber-Security a Real Risk for Aviation**
- **IOTSWC Showcases the Best Startups in the IoT Industry in a New Area**
- **Leonardo: Approved the Merger by Incorporation of Sistemi Dinamici into Leonardo**
- **AOPA President Tells Congress to Modernize Not Privatize**
- **Beyond the Mandates**
- **SESAR 2020 Project PJ.14 EECNS Open Day**
- **FCC Proposes CBRS Auction Rules: Over 22,000 Licenses by County, Possible CMA Option**
- **The Basics of IoT Device Security**
- **Addressing the Aviation Cyber Risk Together**
- **FCC Seeks Comment on Bidding Procedures for 3.5 GHz Auction**
- **Siemens Makes Major Personnel Changes**
- **The 2019 IoT Global Awards Shortlist Nominees Are...**
- **Aviation Groups to ICAO – "Urgent Need to Address GNSS Interference"**
- **September 2019 WiMAX Forum Monthly Newsletter**

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