

The header features a dark blue background with a glowing green and blue globe. The globe is overlaid with a network of white and blue lines, representing a global communication network. The WiMAX Forum logo, consisting of two overlapping circles, is positioned to the left of the text.

WiMAX FORUM[®] NEWSLETTER

SEPTEMBER 2019

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 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. The NPRM proposes specific technical and licensing rules that are required before commercial AeroMACS operations can become routine at U.S. airports. The proposed rule changes will help ensure timely deployment and enable broadband communications capability to support airport surface operations.

Many of the proposals included in the NPRM are based on industry-consensus proposals the WiMAX Forum filed with the FCC in 2017. Initial comments were due September 3 and reply comments are due by **September 30, 2019**. Comments may be filed electronically with the FCC at the following link: <https://www.fcc.gov/ecfs/>. Please make sure to enter **19-140** in the field for "Specific Proceeding." We remain completely at your disposition should you have any questions, comments or concerns and would be delighted to speak with you should you care to discuss this personally. You may contact us at info@WiMAXForum.org.

Last month, the International Civil Aviation Organization (**ICAO**) has published the Manual on the Aeronautical Mobile Airport Communication System (AeroMACS). This document complements the AeroMACS-related Standards and Recommended Practices (SARPs) in Annex 10, and aims to provide guidance to regulators, manufacturers and system integrators for the deployment and configuration of AeroMACS. The digital publication can be reviewed [here](#).

Also in August, **Siemens** announced the AeroMACS implementation at Tom Jobim Airport in Brazil. The system transmits real-time data and images to airport operators through mobile and fixed assets, facilitating and optimizing management of the entire site. It was developed to meet the specific needs of **RIOgaleao** which receives about 15 million passengers and operates over 50,000 flights a year. To view the project video at YouTube, click at the following link: <https://youtu.be/dIkiPcoau7M>.

This month, the WiMAX Forum attended the **38th AIAA/IEEE Digital Avionics Systems Conference (DASC)** 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, seminars, and webinars, we are reaching out to diverse audiences in the WiMAX community.

On **October 22 at 4:20PM in Theater 1**, the WiMAX Forum President, **Declan Byrne** will host a presentation at the **ATCA Annual Conference and Exposition** held at Walter E. Washington Convention Center - Washington, D.C. Byrne will speak about the latest AeroMACS developments and

FCC Notice of Proposed Rulemaking (NPRM). 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.

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. Our focus has been to share key lessons, concrete knowledge, and work together for the benefit of the industry. Our involvement in these events has proven to be the right strategy, fostering a prosperous environment and future for the WiMAX ecosystem.

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.

• **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.

• **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.

To read the entire 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>ATCA October 20-23, 2019 Washington, D.C. AeroMACS Presentation October 22 at 16:20 For more information visit: AeroMACS at ATCA Annual</p>
	<p>AeroMACS 2020 - Madrid March 11 at 14:00 to 16:00 AeroMACS Exhibition Madrid, Spain For more information visit: AeroMACS at World ATM Congress</p>

Upcoming Events:

	<p>October 29-31, 2019 Barcelona, Spain For more information visit: IoT Solutions World Congress</p>
	<p>November 14-15, 2019 London, UK For more information visit: AI World</p>

	<p>November 18-20, 2019 San Francisco, CA For more information visit: Smart Home Summit</p>
	<p>February 19-21, 2020 New Delhi, India For more information visit: Convergence India</p>
	<p>February 19-21, 2020 New Delhi, India For more information visit: Internet of Things India expo</p>
	<p>March 10-12, 2020 Madrid, Spain For more information visit: World ATM Congress</p>
	<p>March 18-19, 2020 Las Vegas, NV For more information visit: Blockchain and Data Science</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.

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. 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.

AeroMACS, Smart Energy, product certification and various spectrum access solutions have been the current focus of the Working Groups. 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 on several technical projects and achieving important milestones 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 is finalizing the IOT procedures and has finalized PlugFest procedures to support this event and future certification to support 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](#).

The Smart Energy Working Group (SEWG) next meeting will be scheduled shortly. As details concerning the next SEWG meeting 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 September:

- [AeroMACS 2020 - Madrid at World ATM Congress](#)
- [Application and Development of New Technologies of ATM in China](#)
- [5G Comes with Unique Security Risks](#)
- [Network Operations Report](#)
- [Leonardo: Industry Leader in the Dow Jones Sustainability Indices](#)
- [IoT - Much Loved ... and Maligned](#)
- [ACI-NA 2019: Panellists Address New Airport Risks](#)
- [Bangladesh Adds 470,000 Mobile Phone Subscribers in August](#)
- [Embraer's Slattery Sees Broad Benefits of Consolidation](#)
- [Regulation with Room for Innovation the Key to Improved Airport Security](#)
- [FCI Network Technologies](#)
- [Research on NASA UAV System Communication, Navigation and Surveillance Technology](#)
- [UK IoT Security Regulation Encourages Consumers to Be More Aware](#)
- [FCC Proposes 3.5 GHz CBRS Auction Procedures](#)
- [Security and Resiliency at the Grid's Edge](#)
- [MarketsandMarkets Industry 4.0 Conference: Cybersecurity & Industrial Internet of Things](#)
- [Collaboration in ATM Industry Boosts European Aviation](#)

- **Sectigo Certificate Manager Integrates with Docker, Kubernetes, Ansible, Terraform, HashiCorp Vault**
- **Li Jian Attends the 56th Conference of Directors General of Civil Aviation of Asia and Pacific Regions with a Chinese Civil Aviation Delegation**
- **AeroMACS: The System That Facilitates Operations at Galeao Airport**
- **Application and Development of New Technologies in Air Traffic Management of China**
- **FCC Moves Toward June 2020 Auction of CBRS Spectrum**
- **Eurocontrol Cautions for Step-change in Cyber-attacks**
- **AeroMACS Presentation at ATCA Annual in October**
- **IoT Security Challenges in a 5G Era: Expert Advice**
- **Three Chinese Airlines Place COMAC ARJ21 Orders**
- **Why 5G Requires New Approaches to Cybersecurity**
- **Update of AeroMACS Application and Specification in China**
- **Cybersecurity in Aviation**
- **FCC Continues to Close the Digital Divide with More Broadband Funding**
- **Spotlight Podcast: Unpacking Black Hat Hacks with Digicert CTO Dan Timpson**
- **Electronic Navigation Research Institute 2019 Publication**
- **IOTSWC 2019 Will Bring Together 400 Companies Providing Solutions for the Digitalisation of Industries**
- **How PKI & Embedded Security Can Help Stop Aircraft Cyberattacks**
- **RTCA Digest**
- **August 2019 WiMAX Forum Monthly Newsletter**



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