



JULY 2019

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INTRODUCTION

Dear Respected Colleagues,

This July, the **WiMAX Forum** has been busy producing important work to increase awareness, support and advance the Aeronautical Mobile Airport Communication System (**AeroMACS**), **WiGRID**, and the **WiMAX** technology with the collaboration and participation of its **Board of Directors, Member Companies, Working Group Representatives**, and industry leaders. We have much going on, which we feel is directly relevant and value-added to the **Membership**.

Last month, the WiMAX Forum and Member Companies **CelPlan Technologies, Ondas Networks** and **Siemens** participated at the **UTC Telecom & Technology Conference** in Fort Worth, Texas. WiMAX Forum Member Company, **Ondas Networks** hosted an IEEE 802.16 Meeting collocated with the UTC Telecom & Technology Conference.

Also in June, the Federal Communications Commission (**FCC**) voted 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. Many of the proposals included in the NPRM are based on industry-consensus proposals the WiMAX Forum filed with the FCC in 2017. To read the WiMAX Forum Statement on the FCC Proposal for Commercial AeroMACS Operations, please click [here](#).

The proposed rule changes would help to ensure timely deployment and enable broadband communications capability to support airport surface operations. 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." Comments are due September 3, 2019. We remain completely at your disposition should you have any questions, comments or concerns and would be delighted to speak with any of you should you care to discuss this personally. You may contact me at info@WiMAXForum.org.

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. 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.

On **September 8-12**, the WiMAX Forum will attend the **38th AIAA/IEEE Digital Avionics Systems Conference (DASC)** in San Diego, California. 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.

The WiMAX Forum has received 10 VIP Complimentary Passes to participate at **Industry 4.0 Conference** taking place on September 8-12 in Chicago, Illinois. If you are planning to attend

MarketsandMarkets Industry 4.0 Conference: Cybersecurity & Industrial Internet of Things, please email info@WiMAXForum.org to receive the VIP Pass.

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. We at the WiMAX Forum wish you a wonderful 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.

• **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](#).

• **WiMAX Forum Statement on FCC Proposal for Commercial AeroMACS Operations**







The WiMAX Forum® applauded today's vote by the Federal Communications Commission (FCC) adopting a Notice of Proposed Rulemaking (NPRM) proposing service rules for the Aeronautical Mobile Airport Communication System, better known as AeroMACS. AeroMACS is a next generation airport surface communications system designed to promote safety and on-time flight performance at airports around the globe.

To read the entire press release, 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>ASIA IOT BUSINESS PLATFORM</p>	<p>August 28-29, 2019 Jakarta, Indonesia For more information visit: Asia IoT Business Platform</p>
 <p>MarketsandMarkets Industry 4.0 Conference: Cyber Security & IIOT 23rd - 24th September 2019, Chicago-USA</p>	<p>September 23-24, 2019 Chicago, IL For more information visit: Industry 4.0 Conference</p>
 <p>IOT SOLUTIONS WORLD CONGRESS</p> <p>THE LEADING IOT INDUSTRY EVENT BARCELONA 29-31 OCTOBER 2019</p>	<p>October 29-31, 2019 Barcelona, Spain For more information visit: IoT Solutions World Congress</p>
 <p>HILARIS AI World & Cyber Security 2019 November 14-15, 2019 London, UK</p>	<p>November 14-15, 2019 London, UK For more information visit: AI World</p>
 <p>28th Convergence India 2020 Digital India - Connecting the Unconnected 19 - 21 FEBRUARY 2020 Pragati Maidan, New Delhi, India</p>	<p>February 19-21, 2020 New Delhi, India For more information visit: Convergence India</p>
 <p>Internet of Things India expo Converging + Connecting + Automating</p> <p>19 - 21 February 2020 Pragati Maidan, New Delhi</p>	<p>February 19-21, 2020 New Delhi, India For more information visit: Internet of Things India expo</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 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.

These technical Working Groups are currently focused on **AeroMACS**, **Smart Energy**, product certification and various spectrum access solutions. A number of activities are 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 throughout the year. The AWG is working 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.

WiMAX Forum Members AeroMACS manufacturers will be participating in an AeroMACS PlugFest at the AeroMACS Designated Certification Laboratory (ADCL) highlighting PKI and mobility. This will be a final step for multiple vendors to achieve complete certification including (Interoperability Testing (IOT), Protocol Conformance Testing (PCT) and Radio Conformance Testing (RCT)) Expected to be held in 2019, as details concerning this event are finalized, we will be certain to keep you informed.

The AWG CTG is finalizing the IOT procedures and PlugFest procedures to support this event and future certification to support an overall WiMAX Forum certification compliance for AeroMACS. The CTG has already 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 July:

- **[AeroMACS: The Standardized Solution for the Airport Surface Communications Worldwide](#)**
- **[Air Travelers Must Have 21st-Century Safety and Security](#)**
- **[Northwest Air Traffic Control Bureau Held a CDM System Function Use Seminar](#)**
- **[Romanian Civil Aeronautical Regulation RACRNS "Operation of Communication, Navigation, Surveillance Systems"](#)**
- **[Shandong Air Traffic Control Branch Technical Support Department Held a Full Assembly Meeting](#)**
- **[NTIA's ITS wraps final CBRS test reports](#)**
- **[IoT Solutions World Congress Announces the Ten Testbeds for Its Edition This October](#)**
- **[Urban Air Mobility in the Spotlight](#)**
- **[Senate Confirms Delta Veteran as FAA Head](#)**
- **[IATA: Air Traffic Control Inefficiencies Mean Summer of Wasted Emissions and Delays](#)**
- **[3.5GHz CBRS Band Deployments Face Yet Another Delay](#)**
- **[Sectigo Partners with NetObjex to Protect the Edge of IoT](#)**
- **[WInnForum Approves 5G NR as a Supported Air Interface for CBRS Band](#)**
- **[Interview with Ray Garnie, Senior Vice President- APAC, DigiCert](#)**
- **[Connected Manufacturing Forum](#)**
- **[More Congressional Funding Needed to Accelerate Aviation Infrastructure](#)**
- **[China and Brazil Sign MOU on General Aviation](#)**
- **[Air Traffic Numbers Heat up as Summer Holidays Get Underway](#)**
- **[Thailand Wants 5 More International Airports](#)**
- **[Creating A Secure, Intelligent Electric Grid Network](#)**
- **[Critical Assets – The Similarities Between Your Brain and Your Bike](#)**
- **[What is AeroMACS | Benefits or Advantages of AeroMACS system](#)**
- **[Ondas Networks Enters Class I Rail Market With Advanced Private Wireless Solution for Increased Productivity and Efficiency](#)**
- **[AI World & Cyber Security](#)**
- **[FCC Outlines Additional 5G Auctions, Includes Mid-Band 2.5 GHz and mmWave Spectrum](#)**
- **[Wider DevOps Needs Sharper Identity Certificates](#)**
- **[U.S. Transportation Secretary Elaine L. Chao Announces \\$477 Million in Infrastructure Grants to 264 Airports in 44 States](#)**
- **[UK Businesses Face One Cyber-Attack Every 50 Seconds](#)**
- **[Promoting Aviation Safety - A Proposed Rule by the FCC](#)**
- **[Driving End-to-End Grid Intelligence with New Wireless Standards](#)**

- **Refreshing the ACARS Approach: An Introduction to Internet Protocol Suite (IPS)**
- **How to Tackle the Tough Stuff Around IoT Security – Part 2**
- **Gansu Supervisory Authority Guides the Implementation of the New Technology Application of Civil Aviation**
- **IOTSWC 2019 Hosts a Brokerage Event to Identify Partners**
- **Safety vs. Security: Attacking Avionic Systems with Humans in the Loop**
- **Satellite Giants Battered by New C-Band Proposals for 5G**
- **Montenegro Mobile Penetration Rate Reaches 175.99%**
- **Air Travel Needs Cybersecurity, Now Tighter Than Ever**
- **China Civil Aviation Technical Standard Order**
- **Civil Aviation participated in the China-EU Civil Aviation APP**
- **Aeronautical Mobile Airport Communications System Datalink**
- **Aviation Cyber Security Guidelines - Civil Aviation Authority, Qatar**
- **'Spectrum Now' Act Takes Aim at Mid-Band Spectrum**
- **FAA Researching Use of Airplane Connectivity for SWIM**
- **Ondas Networks Establishes Mission-Critical Wireless Service in Alaska and the Gulf of Mexico Regions**
- **RTCA Digest Summer 2019**
- **Leonardo: Approved by the Bod the Start of the Merger Process by Way of Incorporation of Sistemi Dinamici**
- **EU to Slap Qualcomm with Second Antitrust Fine: Report**
- **June 2019 WiMAX Forum Monthly Newsletter**



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