

The header features a dark blue background with a glowing green and blue globe. The globe is overlaid with a network of white lines representing connections. The WiMAX Forum logo, consisting of two overlapping white circles, is positioned to the left of the text. The text 'wiMAX FORUM®' is in a white, sans-serif font, with 'wi' in lowercase and 'MAX FORUM' in uppercase. Below it, 'NEWSLETTER' is written in a larger, bold, white, sans-serif font.

wiMAX FORUM® NEWSLETTER

MARCH 2019

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INTRODUCTION

Dear Respected Colleagues,

The **WiMAX Forum** with the collaboration and participation its **Board of Directors, Member Companies, Working Group Representatives**, and industry leaders, will continue to produce important work to increase awareness, support and advance the Aeronautical Mobile Airport Communication System (**AeroMACS**), **WiGRID**, and the **WiMAX** technology.

This month, the WiMAX Forum has announced the election of its new **Board of Directors** member. **Kathy Nelson** is the Director, Technical Product Marketing & Industry Relations at **Ondas Networks**. Ondas Networks Inc. (formerly Full Spectrum Inc.) is a wireless networking company that designs and manufactures its multi-patented, Software Defined Radio (SDR) platform for Mission Critical IoT (MC-IoT) applications. For more information, please click [here](#).

On March 13, the WiMAX Forum with the support from **DigiCert, Powertech Labs, Sectigo, Siemens, and Telrad Networks** hosted the first AeroMACS conference of 2019 collocated with **World ATM Congress** in Madrid, Spain. **AeroMACS 2019 - Madrid** was a great success with participants from around the world raising awareness about the value of this secure and standardized wireless broadband technology to support the safety and regularity of flights on the airport surface. The presentations were well-received and further drove collaboration among industry players to support the technology as an industry standard.



The event illustrated a wide variety of worldwide activities and the tremendous interest in the current use of AeroMACS to improve ground communication. Attendees were treated to an in-depth program that touched on a range of topics including latest developments, worldwide deployments and applications, security through the WiMAX Forum Public Key Infrastructure (PKI) Policy and other topics. The program highlighted the opportunities and strategies involved in operating an AeroMACS network. The WiMAX Forum would like to thank the contributing speakers from the following companies:

ANA - Aeroportos de Portugal	Powertech Labs
Aviation Data Communication Corporation (ADCC)	RIOgaleao
Avicom Japan	Sectigo
DigiCert	Siemens
EUROCONTROL	Telrad Networks
Leonardo Company	

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. 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:

- At the **ICNS Conference** on April 9-11, the WiMAX Forum and industry experts will participate with AeroMACS presentations.

During the **Technical Sessions** on Tuesday, April 9 at 3:30 - 4:00 pm the WiMAX Forum will present "AeroMACS: Standardized Solution Enabling Secure Connectivity Worldwide at the Airport Surface." On Thursday, April 11 at 1:00 - 1:30 pm "AeroMACS and UAV – Two Sides of the Same World for Single Goal" will be presented by the WiMAX Forum Board of Directors, Paolo Troyer, Product Manager for Civil ATC Communications at Leonardo.

Additionally, the WiMAX Forum President **Declan Byrne** will participate in the **Plenary III Part 1: Future Communications Infrastructure Status** on Thursday, April 11 at 8:15 am a panel of experts participating in future infrastructure design and development will provide status updates on ongoing work areas such as new technologies – including SATCOM, LDACS and AeroMACS and the internet protocol suite for aviation (ATN/IPS) – and will address spectrum usage and future plans.

We will continue to increase awareness of, educate, and meet with industry leaders worldwide about implementing and developing WiMAX, AeroMACS, and WiGRID networks in ways that will best serve all stakeholders. 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**.

Member organizations have already been contacted by our membership and finance teams. As always, we stand ready to answer any questions that you have. If you have questions or would like more information regarding your membership status, please email **Membership@WiMAXForum.org**, and we will respond as quickly as possible.

Please reach out to us if you have any questions or comments. We look forward to continuing to work with you through 2019!

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.

• **WiMAX Forum Newly Elected Board Member**

The WiMAX Forum®, the leading organization that certifies and promotes the compatibility and interoperability of broadband wireless products based upon IEEE Standard 802.16, announces the election of its new member to the Board of Directors. Kathy Nelson is the Director, Technical Product Marketing & Industry Relations at Ondas Networks. Kathy has 25 years of experience as a telecommunications engineer in the electric utility industry and leads Ondas Networks relations and product marketing across all industrial verticals.

To read the complete press release, please click [here](#).

• **Enhancing Aerodrome Surface Operation by AeroMACS and BDS - CAAC Presentation at ICAO 55th Conference of Directors General of Civil Aviation, Asia and Pacific Regions**

Aeronautical Mobile Airport Communications System (AeroMACS) is being developed to provide a new broadband wireless communications capability for safety critical communications in the airport surface domain, providing connectivity to aircraft and other ground vehicles as well as connections between other critical airport fixed assets. This paper presents the development of applications based on AeroMACS in 13 airports in China since 2014, and the trial using AeroMACS and BDS which further enhance the aerodrome surface operation, the AeroMACS development in China has progressed from basic system performance testing, D-TAXI assistance application for aircraft and ground vehicles development.

To review the presentation, 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>ICNS AeroMACS Presentations April 9-11, 2019 Herndon, Virginia For more information visit: AeroMACS Presentations at ICNS</p>
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Upcoming Events:

	<p>April 23-26, 2019 Palm Springs, California For more information visit: Field Service</p>
	<p>May 22-24, 2019 Pragati Maidan, New Delhi For more information visit: 5th Smart Cities India</p>
	<p>June 6-7, 2019 London, UK For more information visit: AI World</p>
	<p>July 29-30, 2019 Austin, TX For more information visit: Connected Manufacturing</p>

	<p>August 28-29, 2019 Jakarta, Indonesia For more information visit: Asia IoT Business Platform</p>
	<p>September 23-24, 2019 Chicago, IL For more information visit: Industry 4.0 Conference</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 newest member from 2019 **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 WiMAX Forum 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. Currently, the Working Groups are focused on **AeroMACS**, **Smart Energy**, and various spectrum access solutions.

A number of activities are scheduled to take place throughout this year and we need the help of your technical experts in these groups. 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. It is a crucial time for your organization to influence and leverage the Working Groups activities and contribute to the development of the market.

The Aviation Working Group (AWG) has been making significant progress and achieving important milestones. The AWG Certification Task Group has completed and published the WiMAX Forum® AeroMACS Test Suite Structure and Test Purposes (TSS&TP) Specification to validate the test procedures for Protocol Conformance Tests (PCT). Radio Conformance Tests (RCT) procedures are published and validated. The Interoperability Tests (IOT) procedures to support AeroMACS based on current implementations is now underway to support an overall WiMAX Forum certification compliance for AeroMACS.

The AWG is working on several technical activities including: AeroMACS Product 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 WiMAX Forum Members AeroMACS manufacturers will be participating in an AeroMACS IOT PlugFest at the AeroMACS Designated Certification Laboratory (ADCL), to validate a set of AeroMACS Interoperability Tests, as details concerning this event are finalized, we will be certain to keep you informed. Products are in the AeroMACS Designated Certification Laboratory (ADCL) completing Protocol Conformance Testing (PCT), while a third set of AeroMACS System products is completing Radio Conformance Testing (RCT).

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 is in the process of onboarding Certificate Authorities (CAs), to make AeroMACS operational networks secure with the implementation of AeroMACS PKI.

The Smart Energy Working Group (SEWG) will host a conference call to members shortly. As details concerning this 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 March:

- [SESAR Walking Tours](#)
- [WiMAX Forum Newly Elected Board Member](#)
- [CNS Evolution: Roadmap & Strategy](#)
- [White House to Nominate Former Delta Air Lines Executive as FAA Administrator](#)
- [Global SEZ Expo & Convention 2019](#)
- [Building an Effective Cybersecurity Program](#)
- [Embraer To Name New Chief Executive](#)
- [White House Requests More Than \\$17.4 Billion for Federal Cyber Efforts](#)
- [For Three Days, Madrid Was the Capital of Global Air Traffic Management](#)
- [Leonardo Attends World ATM Congress to Present a Vision of Secure and Efficient Air Traffic Management Backed by Innovative Technology](#)
- [White House FAA Budget Request Focuses on UAS, NextGen](#)
- [Sectigo Announces Strategic Alliance with Kyrio to Secure Device Ecosystems](#)
- [Siemens Is the Leader in European Patent Applications](#)
- [Integrated Communications Navigation and Surveillance in April](#)
- [EUROCONTROL Network Operations Report](#)
- [Firms with Poor IoT Security Are More Likely to Experience Data Breaches, DoS & More](#)
- [Special Events the Week of World ATM Congress](#)
- [Telewave Joins WiMAX Forum, Affirming Support for Advanced Telecom Compatibility](#)
- [An Implementation Analysis of Communications, Navigation, and Surveillance \(CNS\) Technologies for Unmanned Air Systems \(UAS\)](#)
- [EASA Proposes New Aircraft Cybersecurity Certification Amendments](#)

- **DigiCert Purchases QuoVadis, Becomes a Qualified TSP**
- **Leonardo Wins National Award for Innovation with Its Environmental Protection Project in the Aeronautical Sector**
- **Airlines for Europe (A4E): "Europe's Inefficient Airspace Cost the Eu €17.6 Bn in 2018; 334 Million Passengers Affected"**
- **Sectigo Recognized for Innovation in Cyber Defense Magazine's InfoSec Awards**
- **Learn the Latest AeroMACS Developments at World ATM Congress 2019 on March 13**
- **Cooperation Key to Keeping Aviation Secure Amid Evolving Threats & Doubling Passenger Demand**
- **EASA Proposes Beefing Up Aircraft Cybersecurity**
- **Sectigo Further Expands Technology Leadership Team**
- **Bangladesh adds 560,000 mobile subscribers in January**
- **World ATM Congress 2019 Has More of Everything This Year**
- **Optimizing Cyber Security and Trusted Computing on Today's Connected Military and Commercial Aircraft**
- **How Eonty & DigiCert Eliminate IoT Security Blind Spots**
- **On-Demand Mobility As 'Important in Aviation As the Dawn of the Jet Age'**
- **February 2019 WiMAX Forum Monthly Newsletter**



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