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WiMAX FORUM® NEWSLETTER

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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 to produce important work to increase awareness, support and advance the Aeronautical Mobile Airport Communication System (**AeroMACS**), **WiGRID**, and the **WiMAX** technology.

Last 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**.

Additionally, on March 13 the WiMAX Forum hosted the first AeroMACS conference of 2019 collocated with **World ATM Congress** in Madrid, Spain. Participant companies included: **ANA - Aeroportos de Portugal** , **Aviation Data Communication Corporation (ADCC)**, **Avicom Japan**, **DigiCert**, **EUROCONTROL**, **Leonardo Company**, **Powertech Labs**, **RIOgaleao**, **Sectigo**, **Siemens**, and **Telrad Networks**.

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.

This month on April 9-11, at the **ICNS Conference** in Herndon, Virginia, the WiMAX Forum President **Declan Byrne** participated at the **Plenary Panel - Future Communications Infrastructure Status** with other industry experts from **FAA**, **Honeywell**, DLR, Inmarsat and Iridium, and presented the latest AeroMACS developments. At the **Technical Session** the WiMAX Forum presentation evolved on "AeroMACS: Standardized Solution Enabling Secure Connectivity Worldwide at the Airport Surface." AeroMACS was a relevant topic among participants with a series of in-depth presentations addressing worldwide deployments, current applications, successful implementations and other details.

Also, in April the WiMAX Forum announced an ecosystem progress towards WiMAX Forum AeroMACS Certification with the notice to the market that Siemens has successfully completed both Protocol Conformance Testing (PCT) and Radio Conformance Testing (RCT) certification phases at the Powertech labs. Complete certification (Interoperability Testing (IOT), PCT and RCT) of multiple products by a variety of manufacturers is expected to be held in the first half of 2019 at the AeroMACS PlugFest.

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 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**.

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.

Please reach out to us if you have any questions or comments. We at the WiMAX Forum wish you a great end of month and 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 Achieves Important Milestone to Support AeroMACS Development**

The WiMAX Forum®, the leading organization that certifies and promotes the compatibility and interoperability of broadband wireless products based upon IEEE Standard 802.16, is proud to announce an ecosystem progress towards WiMAX Forum Aeronautical Mobile Airport Communication System (AeroMACS) Certification with the notice to the market that Siemens has successfully completed both Protocol Conformance Testing (PCT) and Radio Conformance Testing (RCT) certification phases at the Powertech labs.

To read the entire press release, please click here.

• 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.

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:

5th Smart Cities India 2019 Expo — 22-24 MAY 2019 Pragati Maidan, New Delhi, India	May 22-24, 2019 Pragati Maidan, New Delhi For more information visit: **5th Smart Cities India**
AI WORLD 2019 JUNE 06-07, 2019 LONDON	June 6-7, 2019 London, UK For more information visit: **AI World**
Industrial Internet of Things USA	June 18-19, 2019 Chicago, IL For more information visit: **Industrial IoT USA**
Connected Manufacturing Forum	July 29-30, 2019 Austin, TX For more information visit: **Connected Manufacturing**

ASIA IOT BUSINESS PLATFORM	August 28-29, 2019 Jakarta, Indonesia For more information visit: **Asia IoT Business Platform**
MarketsandMarkets Industry 4.0 Conference: Cyber Security & IIOT 23rd - 24th September 2019, Chicago-USA	September 23-24, 2019 Chicago, IL For more information visit: **Industry 4.0 Conference**

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 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 WiMAX Forum Working Groups are currently focused on **AeroMACS**, **Smart Energy**, product certification and various spectrum access solutions. A number of activities are scheduled to take place this year 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 have been making significant progress and achieving important milestones. 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.

This month, the WiMAX Forum announced that Siemens has successfully completed both Protocol Conformance Testing (PCT) and Radio Conformance Testing (RCT) certification phases at the Powertech labs, in pursuit of total AeroMACS Certification for their products. WiMAX Forum Members AeroMACS manufacturers will be participating in an AeroMACS PlugFest at the AeroMACS Designated Certification Laboratory (ADCL) to achieve complete certification (Interoperability Testing (IOT), PCT and RCT) of multiple products, expected to be held in the first half of 2019, as details concerning this event are finalized, we will be certain to keep you informed.

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 PCT. RCT procedures are published and validated. The IOT procedures to support AeroMACS based on current implementations is now underway to support an overall WiMAX Forum certification compliance for AeroMACS.

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. An overview of the AeroMACS PKI process is available here: **AeroMACS PKI Users Overview**.

The Smart Energy Working Group (SEWG) hosted a conference call to members on April 17 with discussions about CBRS, IEEE 802.16s and other WiGRID developments. The 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 April:

- **A Proposal for the Future Architecture of the European Airspace**
- **Comparison of Air Traffic Management-Related Operational Performance U.S./Europe**
- **Ondas Networks Files for U.S. IPO**
- **Europe's Airports See Potential in Future Network Manager Deployment Remit**
- **April RTCA Digest**
- **Asia IoT Business Platform**
- **Igniting the Next Industrial Revolution with IoT**
- **FCC Chairman Opposes China Mobile Plan to Enter the US Market**
- **New CEO of Siemens Oil & Gas**
- **Mission Critical Communications Webinar Recording**
- **Today's PKI Is Purpose-Built and Ready for IoT**
- **FCC Proposes Protections for 5G Infrastructure Hub and Relay Antennas to Spur Deployment**
- **Mass Certificate Revocation Shows Why Security Automation Matters**
- **ICNS Opening Remarks**
- **Is Aviation Safe from Hackers?**
- **Civil Aviation Administration organizes participation in the ICAO Asia-Pacific Monitoring Technology Forum**
- **AI World 2019 Conference in London**
- **New Technologies and a Network Approach Are Keys to Achieving Seamless Airspace**
- **Automated Certificate Management Is No Longer a Nice to Have; It's Essential**
- **Analyst Details Mobile and Fixed CBRS Opportunities for Enterprise, Service Provider Sectors**
- **Siemens Achieves Important Milestone to Support AeroMACS Development**

- **ICAO Secretary General Highlights Future Aviation Challenges at 2019 ACI World Assembly**
- **Leonardo Signs Wide-Ranging Partnership Agreement in Brazil to Collaborate on Urban Security and Infrastructure Projects**
- **DigiCert CEO John Merrill on Symantec, "Hellacious" Projects, Fake News and Quantum Certificates**
- **Smart Cities India Awards**
- **Sectigo Launches Root Causes: A PKI and Security Podcast**
- **5G Deployment Faces a Skills Gap**
- **SESAR Solutions Catalogue 2019**
- **Director of Technical Product Marketing and Industry Relations, Kathy Nelson, P.E. to join as WiMAX Forum Board Member**
- **Reliable and Secure Surveillance, Communications and Navigation (RSCAN) for Unmanned Air Systems (UAS) in Controlled Airspace**
- **Airports Testify on $128 Billion in Infrastructure Needs**
- **Leonardo Offers Brazil the Best Technologies and Products for the Security and Protection of the Country and Its Population**
- **Connected Manufacturing Forum**
- **Bangladesh adds 890,000 mobile subscribers in February**
- **Draft Performance Review Report (PRR) 2018**
- **FAA Nominee Embraced NextGen, Opposed ATC Separation**
- **March 2019 WiMAX Forum Monthly Newsletter**

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