

The header features a dark blue background with a glowing green and blue network grid pattern. The WiMAX Forum logo, consisting of two overlapping circles, is positioned to the left of the text. The text "WiMAX FORUM" is in a large, white, sans-serif font, with a registered trademark symbol. Below it, "NEWSLETTER" is written in a slightly smaller, white, sans-serif font.

WiMAX FORUM[®] NEWSLETTER

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

Last month, at the **ICNS Conference** in Herndon, Virginia, the WiMAX Forum President **Declan Byrne** participated with other industry experts from **FAA, Honeywell, DLR**, Inmarsat and Iridium at the **Plenary Panel - Future Communications Infrastructure Status**, 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.

This month on 6-10 May, the WiMAX Forum President Declan Byrne participated at the International Civil Aviation Organization (**ICAO**) Trust Framework Study Group (TFSG) first meeting in Montreal, Quebec. The study group will develop policy, guidance and a transition strategy for a global interoperable framework that will enable trusted ground-ground, air-ground and air-air exchange of information among all current and prospective aviation stakeholders.

On 13-16 May, at the **Internet of Things World** in Santa Clara, California, the WiMAX Forum Chairman, **Dr. Mo Shakouri** participated with other industry experts at the **Panel - Connectivity is Crucial to Saving Lives**, and highlighted the features of IEEE 802.16s and WiGRID. The conference agenda included keynotes and tracks covering industrial and consumer verticals, and technical focused sessions.



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 **June 17-21**, the WiMAX Forum and Member Companies **CelPlan Technologies**, **Ondas Networks** and **Siemens** will participate in the next **UTC Telecom & Technology Conference** in Fort Worth, Texas. Participation includes exhibition, meetings, presentations, sponsorship and more. If you are attending the conference it will be a great opportunity to meet with industry leaders and experts, learn the latest developments and industry trends.

On **June 18 from 3-6 pm**, WiMAX Forum Member Company, **Ondas Networks** will host an IEEE 802.16 Meeting collocated with the UTC Telecom & Technology Conference. Participation in this meeting is free and open to all interested participants. If you would pre-scheduled a meeting time with us and/or attend the IEEE 802.16 Meeting, please email Alessandra.Rocha@WiMAXForum.org for more information.

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. We at the WiMAX Forum wish you a wonderful remainder of May and a prosperous June!

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: Mo Shakouri Outlines Benefits of WiGRID, AeroMACS Technologies for Private Networks**

Mo Shakouri, chairman of the board for the WiMAX Forum, explains how WiGRID and AeroMACS technology are designed use licensed spectrum to let critical-infrastructure entities build mission-critical private networks as alternatives to services provided by cellular operators. Shakouri spoke with IWCE's Urgent Communications Editor Donny Jackson during pre-conference activities at the IoT World event in Santa Clara, Calif.

To see the publication, please click [here](#).

- **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](#).

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>AI WORLD 2019 JUNE 06-07, 2019 LONDON</p>	<p>June 6-7, 2019 London, UK For more information visit: AI World</p>
 <p>Industrial Internet of Things USA</p>	<p>June 18-19, 2019 Chicago, IL For more information visit: Industrial IoT USA</p>
 <p>Connected Manufacturing Forum</p>	<p>July 29-30, 2019 Austin, TX For more information visit: Connected Manufacturing</p>
 <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 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>

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 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 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 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 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.

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) and the WiMAX Forum hosted the first AAC meeting this month. 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 May:

- [How Low Cost Wireless Broadband Networks Are Connecting 'Last-Mile' Communities in Djibouti](#)
- [Everything Connected: Securing the IoT in Critical National Infrastructure](#)
- [Exploration of Airport Scene Activity Monitoring and Autonomous Navigation Control System Based on AeroMACS Technology](#)
- [EASA to Codify and Expand Aircraft Cybersecurity Requirements](#)

- **Milestone Deal on Civil Aviation to Enhance China-EU Cooperation**
- **AI World in London Next Month**
- **Airlines for America Projects Record-Setting Number of Passengers for Summer 2019**
- **Proposed Idaho Powerline Could Help US Cybersecurity Efforts**
- **Judge Rules That Qualcomm 'Strangled Competition'**
- **WiMAX Forum: Mo Shakouri Outlines Benefits of WiGRID, AeroMACS Technologies for Private Networks**
- **Aviation Innovation Posing Opportunities and Challenges for Operators and Regulators**
- **Siemens and Amdocs to Offer High-Reliability Connected Critical Infrastructure Wireless Solutions Based on CBRS**
- **Digicert to Scale up India Operations**
- **Anatel and FCC Discuss Mechanisms to Promote Broadband in Brazil**
- **The IoT Solutions World Congress 2019 Announces Its First Speakers and Sessions**
- **Sectigo Sponsors Let's Encrypt to Enable Certificate Transparency Log Operation**
- **Japan Tops 175 mln Mobile Subscribers in March**
- **FCC Takes Landmark Steps to Make CBRS a Reality, Calls for More 5G Mid-Band Spectrum**
- **EUROCONTROL Reappointed as Network Manager by the European Commission for the Next Decade**
- **NTIA Finalizes SAS Testing, FCC Approves ESCs for CBRS**
- **ICAO President Discusses the Accelerating Progress of Aviation Innovations**
- **Public Private Partnerships and the Cybersecurity Challenge of Protecting Critical Infrastructure**
- **5th Smart Cities India**
- **Cryptography to the fore in quantum computing era: DigiCert**
- **IATA Data Reveals a Slowdown of Global Demand for Air Travel**
- **Sectigo Acquires Icon Labs, Delivering Industry-First End-to-End IoT Security Platform**
- **Civil Aviation Data Company Conducts Lectures in Shandong Air Traffic Control Branch**
- **FAA Releases Aerospace Forecast**
- **Sectigo Delivers Record Quarter of Growth Underpinned by More Than 35% YoY Enterprise Sales Increase in Q1 2019**
- **US Faces Long Wait for 3.5GHz Licences**
- **Industrial IoT USA**
- **Cybercrime Study Finds Increasing Costs as Well as Changing Targets & Methods**
- **At FAA, Data and Modernization Mean Safer Skies**

- **The Dark Side of the Smart Grid**
- **The Fate of FTC's Case After Qualcomm's Settlement with Apple**
- **Finding Security in an IIoT Driven World**
- **Draft Order of the Minister of Transport for the modification and completion of the Romanian Civil Aeronautical Regulation**
- **Europe's Airports in 2018: Talking Points from a Year of Massive Growth**
- **How Certificate Expiration Led to Some of the Largest IT System Failures of the Last Two Years**
- **China Operates Int'l Air Routes Reaching Over 170 Cities in 63 Countries**
- **Industry 4.0**
- **NJ Man Jammed Newark Airport GPS Signals, FCC Says**
- **Leonardo Inaugurates Office in Islamabad**
- **FCC Commissioners Waver Over C-Band Details for 5G**
- **April 2019 WiMAX Forum Monthly Newsletter**



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