WiMAX FORUM® NEWSLETTER

JANUARY 2020

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INTRODUCTION

Dear Respected Colleagues,

Happy New Year! We at the **WiMAX Forum** hope that you all had a wonderful holiday season! We believe 2020 will be a great year for the WiMAX ecosystem and our membership. We as an industry body, with the collaboration, support and participation of our **Board of Directors**, **Member Companies** and **Working Group Representatives**, remain busy doing important work to advance Aeronautical Mobile Airport Communication System (**AeroMACS**), **WiGRID**, and the **WiMAX** technology.

As this coming year promises further momentum, the **WiMAX Forum** will continue to host and participate in several industrial events, meetings, and technical activities to widely advocated the

capabilities of AeroMACS, WiGRID, and other industry applications based on the WiMAX Standard with the expectation that these markets will continue increase in value as WiMAX's market share continues to expand. 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.

This month, the WiMAX Forum participated in the first face to face meeting at the IEEE 802 Wireless Interim session in Irvine, CA. The Project Authorization Request (PAR) for revision of the IEEE 802.16t has been approved by the IEEE 802 Executive Committee. This project specifies operation in licensed spectrum for mission critical entities that have a strong preference for private, licensed networks for their data communications needs. It is important to get broad participation in the standard development, if you are interested in participating in the standard process, please email **info@WiMAXForum.org**, and we will provide you with more details.

The WiMAX Forum is excited about another great event season, as the new year promises further momentum. Through our events, speaking opportunities, and webinars, we are reaching out to diverse audiences in the WiMAX community in ways that will best serve all stakeholders. Here is the summary of an upcoming event that we are participating during the coming months:

• **On March 11, 2020 at 2:00PM** local time, the WiMAX Forum will host **AeroMACS 2020 – Madrid**, a session with AeroMACS presentations at the World ATM Congress - Aireon Spotlight Stage - Feria de Madrid Convention Centre (IFEMA). The presentations will focus on supporting the global Aviation Community in managing profitable development and growth of AeroMACS networks.

• **On March 10-12, 2020** at the **World ATM Congress Conference & Exhibition**, the WiMAX Forum will exhibit AeroMACS at **Booth 117** in the **IFEMA Exhibition Hall**. 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.

Please note registration is required in order to attend the World ATM Congress and the AeroMACS 2020 - Madrid. For registration, please click the following link: **https://worldatm2020.completereg.com/index.aspx**

The WiMAX Forum will keep busy preparing for exciting meetings and events to raise awareness about the benefits of the WiMAX technology. We will continue attending, and participating at key industry events to bring the highest value to the WiMAX community as the market share expands. Please stay tuned for the upcoming event and for more information, please visit: **WiMAX Forum Events**.

We have been in touch with our members about our 2020 renewal cycle. As always, we stand ready to answer any questions that you may have. For 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 wish you a healthy and happy new year and we look forward to continuing to work with you in 2020!

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 move to IP-based communications in aviation

The way pilots, air traffic controllers and others involved in aviation talk is changing thanks to the development of international standards and a push from component manufacturers. The principal protocol for online communications is Internet Protocol. This set of rules is foundational in how the internet works. But despite its widespread use throughout the world, until recently IP has played little part in communications within the aviation sector.

To read complete article, please click here

• IEEE standards are critical to grid mod and other utility priorities: You should help develop them

The electric power industry and others use many IEEE 802 standards on a daily basis without much thought or knowledge of how the standards were created — IEEE 802.3 — Ethernet, IEEE 802.11 — Wi-Fi, IEEE 802.15.4 — Wi-SUN, etc. For widely adopted commercial standards, putting this understanding on the backburner is fine. However, there are other IEEE 802 standards, specifically those used for mission critical applications, that could be better utilized and enhanced if users were to engage in the standardization process.

To read complete article, please click here

• Waypoints: Tomorrow's Technologies Today's Air Traffic Demands

Implementing wireless technologies for air traffic infrastructure. Features: Delivering airport operational excellence Data Comm saves FAA and passengers millions in delays. Air traffic resiliency must be measurable Enabling safety through resilient technologies. Implementing wireless technologies for air traffic infrastructure L3Harris deploys AeroMACS at airports across the United

States. Technology advancements at the speed of safety Excerpts from the white paper published in the ATCA Journal of Air Traffic Control.

To view the 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:

WiMAX FORUM® AeroMACS @WATMC | MADRID, SPAIN	AeroMACS 2020 - Madrid **March 11 at 14:00 to 16:00** AeroMACS Exhibition Madrid, Spain For more information visit: **AeroMACS at World ATM Congress**

Upcoming Events:

28th Convergence India 2020 Digital India - Connecting the Unconnected 19 - 21 FEBRUARY 2020 Pragati Maidan, New Delhi, India	February 19-21, 2020 New Delhi, India For more information visit: **Convergence India**
Internet of Things Converging • Connecting • Automation 19 – 21 February 2020 Pragati Maidan, New Delhi	February 19-21, 2020 New Delhi, India For more information visit: **Internet of Things India expo**
World ATM Congress 2020 A CANSO partnership with ATCA 10-12 March 2020 Madrid, Spain IFEMA, Feria de Madrid	March 10-12, 2020 Madrid, Spain For more information visit: **World ATM Congress**

	March 18-19, 2020 Las Vegas, NV For more information visit: **Blockchain and Data Science**
	April 21-24, 2020 Palm Springs, California For more information visit: **Field Service Palm Springs**
	May 13-14, 2020 Chicago, IL For more information visit: **IoT Innovation North America**
	May 20-22, 2020 New Delhi, India For more information visit: **6th Smart Cities India**

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. The Working Groups are the currently focused on **AeroMACS**, **Smart Energy**, product certification and various spectrum access solutions.

It is a crucial time for your organization to influence and leverage the Working Groups activities and contribute to the development of the market. Several activities are being scheduled and we have a lot to get done in 2020. 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.

The Aviation Working Group (AWG) and the AWG Certification Task Group (CTG) have made significant progress in the past year on several technical projects to support AeroMACS as the standard selected to improve the safety and regularity of flights and have been achieving important milestones. AWG members continue collaborating on the development of AeroMACS Product Conformance Certification, AeroMACS Public Key Infrastructure (PKI), FCC AeroMACS Petition for Rulemaking, and other initiatives.

The AWG CTG has approved and published the IOT procedures to support the testing and certification of products in support of an overall WiMAX Forum certification compliance for AeroMACS based on international approved standards. This test procedure represents the completion of the full set of testing procedures for AeroMACS Certification that include the previously published WiMAX Forum® AeroMACS Test Suite Structure and Test Purposes (TSS&TP) for PCT and RCT Specifications.

The WiMAX Forum, **ICAO**, other regulatory members and key industry stakeholders have formed the AeroMACS Advisory Council (AAC). The AAC is a collaborative body that will promote effective public-private dialogue and will consistent with the AeroMACS Certificate Policy and ICAO policies, provide strategic guidance and oversight for AeroMACS PKI, thereby helping promote optimum interoperability and trust among participants.

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) members are working with IEEE to bring to market devices for narrowband applications and other sub 1GHz spectrum. If you are interested in participating in this activity, please contact us at **info@WiMAXForum.org** and we will be glad to speak with you about this opportunity.

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 January:

- **Podcast - Better Connections: Stewart Kantor of Ondas Network Talks Transforming Industrial Networks**
- **European Plan for Aviation Safety 2020 – 2024**
- **WInnForum Approves New CBRS Specifications**
- **China expects to see 710 million air passenger trips in 2020**
- **EUROCONTROL Network Manager set to launch massive Call for Tender to build tomorrow's ops systems**
- **How business leaders prepare for cybersecurity**
- **IoT Innovation North America**
- **ICAO Reflects on 10 Years of Progress in the Aviation Industry**
- **ETSI Magazine - Drive, Fly and Navigate With ETSI Standards**
- **Digitization comes with cyber threat warning, says Careen**
- **How Digicert CertCentral Reduces Angst of Certificate Management**
- **MITRE Aviation Lab Looking At What National Airspace System Will Look Like in 2035**

- **China has 39 mega airports with passenger throughput over 10M**
- **Field Service Palm Springs**
- **Five Ways Business Directors Can Prepare For The Future Of Cybersecurity**
- **IATA: Passenger demand up 3.3%**
- **Advancing the Standards for Unmanned Air System Communications, Navigation and Surveillance**
- **European ATM Master Plan**
- **The 2019 annual summary meeting of the air traffic control navigation and surveillance equipment license work was held in Chengdu**
- **Aiming For The Sky: Cybersecurity Lessons From The Airline Industry**
- **Your IoT Predictions for 2020**
- **Improvements Are Taking Off at U.S. Airports, As Industry Calls for More Investment**
- **Enter discount code SGO20 for 20% off to attend 4th Smart Cities Intl. Symposium Jan 21-22 in Chicago**
- **IATA forecasts 2020 profit**
- **IEEE standards are critical to grid mod and other utility priorities: You should help develop them**
- **Europe's Network Manager planning digital overhaul**
- **Cybersecurity in aviation: Should we be worried?**
- **RTCA Digest 2019 Highlights**
- **Evolution of the Smart Grid at Forefront of Transformative Change**
- **New management developments at IATA**
- **Convergence India**
- **WInnForum Committee Releases 6 GHz Interference Report**
- **FAA To Publish Proposed UAS Remote Identification Rules**
- **The move to IP-based communications in aviation**
- **Implementing Wireless Technologies for Air Traffic Infrastructure**
- **AeroMACS Deployed at RIOgaleao by Siemens - YouTube Video**
- **Implementation of revised ICAO Global Air Navigation and Safety Plans crucial to development of aviation network**
- **Air traffic management market is predicted to surpass USD 10 billion by 2025**
- **AeroMACS Enabling Safe and Secure Connectivity Worldwide**
- **Collaboration in ATM Industry Boosts European Aviation**
- **WiMAX Forum Statement on FCC Proposal for Commercial AeroMACS Operations**
- **Electronic Navigation Research Institute 2019 Publication**

- **Aerospace and 5G: Realizing the Future**

- **Beyond the Mandates**

- **Cooperation Key to Keeping Aviation Secure Amid Evolving Threats & Doubling Passenger Demand**

- **December 2019 WiMAX Forum Monthly Newsletter**

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