WiMAX FORUM® NEWSLETTER

NOVEMBER 2018

IN THIS ISSUE

- ## Introduction

- ## Industry Spotlight

- ## Events

- ## Membership Services

- ## Working Groups

- ## WiMAX Forum News

INTRODUCTION

Dear Respected Colleagues,

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

Last month, at the ICAO Thirteenth Air Navigation Conference (**AN-Conf/13**) in Montreal, Canada, three working papers related to AeroMACS have been presented: **AeroMACS Development in China**, **Runway Incursion Avoidance Research of CAAC, China** and **AeroMACS for Air-To-Ground Communication and Connectivity to SWIM**. To review the complete list of papers presented at the ICAO ANC-13, please click **here**.

In China, CAAC has been formally authorized with the frequency to install AeroMACS in 110 airports. ATMB of CAAC has already deployed AeroMACS networks in 13 airports performing basic system tests, D-TAXI assistance application for aircraft and ground vehicle development. In Japan, AeroMACS performance has been demonstrated in Haneda and Sendai airports. AeroMACS provided high-capacity data transmission, reducing system introduction and application development costs.

This month, the WiMAX Forum participated at the Twentieth Second Workshop Meeting on the ICAO SAM implementation Meeting (**SAM/IG/22**) in Lima, Peru. The Meeting was aimed to assess the implementation of activities and performance of services, procedures and equipment in the SAM Region for the improvement to the efficiency and capacity of air navigation, considered in the performance-based air navigation implementation plan (SAM PBIP) and aligned with the aviation system block upgrades (ASBU). AeroMACS presentation analyzed AeroMACS advancements, implementations and focused on a comprehensive view of all AeroMACS deployment activities Worldwide.

The next few months promise much progress for the WiMAX market and specially AeroMACS, which is derived from our efforts in developing certification and security as well as our continuation in hosting and participating in several industrial events. Our focus has been to share key lessons, concrete knowledge, and work together for the benefit of the industry. Through our events, speaking opportunities, and webinars, we are reaching out to diverse audiences in the WiMAX

community about implementing and developing **AeroMACS**, **WiGRID**, and WiMAX networks in ways that will best serve all stakeholders.

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**

Our 2019 renewal cycle has begun. Members should have received communications to give ample time to pay their membership dues. For more information regarding your membership status, please send a message to **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 all a prosperous November, 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.

• **Sectigo Delivers IoT Management - WiMAX Forum's Aviation Initiative**

Before they could debut a secure communication solution for the aviation market, WiMAX Forum needed to make sure their new AeroMACS (Aeronautical Mobile Airport Communication System) systems could securely manage large-scale distribution around the globe and across agencies over a long period of time. After settling on a Public Key Infrastructure (PKI) ecosystem to connect devices and secure communications, WiMAX Forum needed a trusted Certificate Authority to provide Internet of Things (IoT) management for AeroMACS.

To read the case study, please click here.

• **AeroMACS Capabilities Validated Through Worldwide Projects**

The WiMAX Forum®, the leading nonprofit organization that certifies and promotes the compatibility and interoperability of broadband wireless products based upon IEEE Standard 802.16, with the cooperation of its member companies, continues to advocate through a wide variety of worldwide activities about the capabilities and value of AeroMACS. AeroMACS projects will be highlighted at the ICAO Thirteenth Air Navigation Conference (ICAO ANC-13), taking place in

Montreal, Canada on October 9-19, 2018. This meeting is key to the global aviation community. It provides a set of recommendations related to flight safety, air navigation capacity, efficiency and other performance areas of the air navigation system.

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.

Featured Events:

WiMAX FORUM® AeroMACS @WATMC	MADRID, SPAIN	AeroMACS 2019 - Madrid AeroMACS Exhibition **March 13, 2019** Madrid, Spain For more information visit: **AeroMACS at World ATM Congress**

Upcoming Events:

BIGDATA ASIA 2018 / AI-ASIA 2018 LEAD The 4th DIMENSION — December 4-5, 2018 • 1 Raffles Boulevard Suntec City, Singapore 039593 Suntec Singapore Convention & Exhibition Centre • SINGAPORE	December 4-5, 2018 Suntec, Singapore For more information visit: **Big Data & AI Asia**
27th Convergence India 2019 — Digital India - Connecting the Unconnected	January 29-31, 2019 New Delhi, India For more information visit: **Convergence India**
3rd Internet of Things India expo 2019 — Converging • Connecting • Automation	January 29-31, 2019 New Delhi, India For more information visit: **3rd IoT India expo**

IT FORUM powered by EFF	February 5, 2019 Istanbul, Turkey For more information visit: **IT Forum Turkey**
GSEZ GLOBAL SEZ EXPO & CONVENTION Unshackle Barriers in Global Business 12-14 FEB. 2019 Jaipur Exhibition & Convention Centre	February 12-14, 2019 Jaipur, Rajasthan For more information visit: **Global SEZ Expo & Convention**
INDUSTRY OF THINGS WORLD USA	March 6-8, 2019 San Diego, California For more information visit: **Industry of Things World USA**
World ATM Congress 2019 Operated by CANSO in partnership with ATCA 12-14 March 2019 Madrid, Spain IFEMA, Feria de Madrid	March 12-14, 2019 Madrid, Spain For more information visit: **World ATM Congress**

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 2018 **CBI Industries, Inc.** 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. 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 Working Groups are currently focused on **AeroMACS**, **Smart Energy**, and various spectrum access solutions. 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) is working on three main technical activities: AeroMACS Product Certification, AeroMACS Public Key Infrastructure (PKI), and the FCC AeroMACS Petition for Rulemaking. While additional products are starting Protocol Conformance Testing (PCT) in the AeroMACS Designated Certification Laboratory (ADCL), a third set of AeroMACS System products is completing Radio Conformance Testing (RCT).

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). The Interoperability Tests (IOT) procedures to support AeroMACS based on current implementations is underway to support an overall WiMAX Forum certification compliance for AeroMACS.

The AeroMACS PKI Certificate Policy (CP) is complete and available to members. 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 PKI, commercially available in 2018.

The Smart Energy Working Group (SEWG) will host a conference call to members on Thursday, January 17, 2019. 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 November:

- **North China Air Traffic Control Bureau Prepares for the Flight Test of the Capital Airport HUD RVR 90m**
- **European Commission Launches Third Edition of Single Sky Awards**
- **Four Reasons PKI is the Best Choice for IoT Security**
- **New Chinese Airlines to Be Based at Tier 2 Airports**
- **Enterprise IoT Security Study Finds Big Gaps Between Most and Least Prepared**
- **Global SEZ Expo & Convention**
- **Security Roundup: Symbol Security, Vade, Barracuda, DigiCert**
- **Making Sure Military Requirements Are Considered in CNS Evolution**
- **Case Study: Sectigo Delivers IoT Management - WiMAX Forum's Aviation Initiative**
- **DigiCert Selected by USB-IF to Operate Managed PKI for USB Type-C™ Authentication**
- **Enabling Future Flight through Evolving ICNS Technologies**
- **New ICAO Amendment to Help Airports Boost Safe Airfield Capacity and Efficiency**
- **NASA Seeks Industry Support for Urban Air Mobility Integration**
- **New Research Unveils Corporate Losses Associated with IoT-Related Security Missteps**
- **CAAC and Airforce Jointly Inspect Integrated Development of Civil and Military Airports in Hubei and Jiangxi**
- **Special Invitation to Attend Big Data & AI Asia**
- **RTCA Announces New President and CEO, Captain Terry McVenes**

- **Huabei Air Traffic Control Bureau Completed the Preparation Test Flight Test of the Capital Airport HUD RVR 90 Meters**
- **FCC Adopts 3.5 GHz Band PAL Licensing Changes**
- **KDDI Q2 Net Profit up Despite Slowing Subs Growth; 5G Will Start 'in Certain Areas' in 2019**
- **California's New IoT Security Law: Inching Toward a Safer Future**
- **Report: China to Reach 20,000 GA Aircraft by 2035**
- **FCC Report to Congress: Shared Spectrum for All**
- **Boingo's CBRS Trial at Dallas Love Field Gets Updated Commercial Deployment Status**
- **Boeing Outlines Vision for Future of Aerospace**
- **IT Forum Turkey**
- **Using Certificates in Our Connected World**
- **The Man Behind the Curtain of Internet Security**
- **Eonti and DigiCert Selected to Deploy PKI for the Open Connectivity Foundation**
- **Tariffs Are a Very Real Issue, Says Siemens USA CEO**
- **Flying Secure**
- **Comodo CA Rebrands as Sectigo**
- **Embraer Expects Brazil to Approve Boeing JV by Year-End**
- **White House Seeks to Drive 'Flexible and Sustainable' Spectrum Policy**
- **Asia and Pacific Meeting Draws Attention to Challenges and Opportunities for World's Largest and Fastest Growing Region for Air Traffic**
- **The Internet of Things Is Becoming the Internet of Threats**
- **October 2018 WiMAX Forum Monthly Newsletter**

SIGN UP | ARCHIVE | Read more at WiMAXForum.com