WiMAX FORUM® NEWSLETTER

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INTRODUCTION

Dear Respected Colleague,

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

On September 30-October 3, the WiMAX Forum attended the **ACI-NA Annual Conference & Exhibition** in Nashville, TN and the **ATCA Annual Conference and Exposition** in National Harbor, MD. WiMAX Forum member companies participated in the exhibition of these events, showcasing their AeroMACS products and demonstrating to participants why AeroMACS is the wireless solution selected to support the increasing need for data communications and information sharing on the airport surface.

On October 9-19, 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.

On November 19-23, the WiMAX Forum will participate at the Twentieth Second Workshop Meeting on the ICAO SAM implementation Meeting (**SAM/IG/22**) in Lima, Peru. This Meeting is 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). As the details are finalized we will be sure to keep you informed.

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 events, speaking opportunities, seminars, 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.

We will continue the pace throughout the year attending, and participating at key industry events and preparing for the remainder of 2018 to bring the highest value to the WiMAX community as the market share expands. In the coming months, the WiMAX Forum will keep busy preparing for

exciting meetings and events to raise awareness about the benefits of the WiMAX technology. Our focus has been to share key lessons, concrete knowledge, and work together for the benefit of the industry. For more information about our events, please visit: **WiMAX Forum Events**

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.

• 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. These recommendations will be submitted for approval to the ICAO Council for endorsement by the 40th Session of the Assembly in 2019.

To read the entire press release, please click here.

• IoT PKI Manager Named Finalist for Computing Magazine Security Excellence Awards

Comodo CA's IoT PKI Manager offers scalable, easy issuance and management of certificates for IoT networks ranging from hundreds to millions of devices. Issuing unique certificates with full lifecycle management to all devices in the network is essential to securing network access and maintaining control over these devices. Award judges considered several innovations and real-world examples when evaluating Comodo CA, including the WiMAX Forum's use of our IoT PKI Manager to provide trusted, mutual-authentication across AeroMACS IoT devices and networks, enabling organizations to achieve secure IoT scalability, protect lifecycles, and build an IoT ecosystem.

To read the complete 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 2019 - Madrid AeroMACS Exhibition **March 13, 2019** Madrid, Spain For more information visit: **AeroMACS at World ATM Congress**

Upcoming Events:

INDUSTRY OF THINGS WORLD USA EAST	November 14-16, 2018 Orlando, Florida For more information visit: **Industry of Things World USA East**
Internet of People Event Studio HvA, Amsterdam 23 November 2018 www.iopevent.com	November 23, 2018 Amsterdam, Netherlands For more information visit: **Internet of People Event**
27th Convergence India 2019 Digital India - Connecting the Unconnected	January 29-31, 2019 New Delhi, India For more information visit: **Convergence India**

	January 29-31, 2019 New Delhi, India For more information visit: **3rd IoT India expo**
	February 5, 2019 Istanbul, Turkey For more information visit: **IT Forum Turkey**
	March 6-8, 2019 San Diego, California For more information visit: **Industry of Things World USA**
	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. The AeroMACS Designated Certification Laboratory (ADCL) is completing Radio Conformance Testing (RCT) on a third set of AeroMACS System products. In parallel, the AWG Certification Task Group has completed 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 Wednesday, December 12, 2018. 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 October:

- **The Eastern Transportation Operation Control Center Jiangxi Transportation Control Department Strengthens the Application of New Technologies in the Civil Aviation Safety Field**
- **Ask About the New Airport?**
- **FCC: CBRS Priority Access Licenses Will Be County-Sized with 10-Year Term**
- **Airport Capacity: Striking the Right Deal**
- **Internet of People Event**
- **CTIA, CCA Applaud FCC Decision on CBRS, but Rural Concerns Remain for Others**
- **Promotion Conference to Encourage Private Investment in Civil Aviation Held in Beijing**
- **CBRS Decision Is a 'Bitter Pill' for WISPA**
- **Airports Vulnerable to Cyberattacks**
- **Enhancing Aerodrome Surface Operation by AeroMACS and BDS Presentation at DGCA55**
- **3.5 GHz CBRS Stakeholders Duke It out Ahead of FCC Vote**
- **Countries Converge to Plan "Tremendous Modernization" in Global Air Transport at 13th ICAO Air Navigation Conference**
- **Harris, L3 to Merge into Defense, Critical Comms Giant**
- **Industry of Things World USA East**

- **Industry Optimistic About New 800 MHz, UHF, 3.65 GHz Opportunities**
- **ICAO Conference Reinforces Value of RTCA Standards**
- **Symposium on Securing the IoT**
- **IoTSWC 2018 Endorses the Internet of Things as a Key Technology in the Digital Transformation**
- **Now Law, Five-Year FAA Bill Paves Way for Industry Stability**
- **Analysis of AeroMACS Data Link for Unmanned Aircraft Vehicles**
- **IoT PKI Manager Named Finalist for Computing Magazine Security Excellence Awards**
- **Urban Air Mobility Airspace Integration Concepts and Considerations**
- **Public Advocacy Groups Urge FCC to Keep CBRS Rules**
- **Countries Converge to Plan "Tremendous Modernization" in Global Air Transport at 13th ICAO Air Navigation Conference**
- **Convergence India**
- **DigiCert, Gemalto and ISARA to Provide Quantum-proof Certificates**
- **FCC to Vote on CBRS Rule Changes with County-Size Licenses This Month**
- **Leonardo's 70 Year History: Underpinning the Present, Inspiring the Future**
- **Cybersecurity Isn't Being Taken Seriously Enough: MIT Professor**
- **AeroMACS Capabilities Validated Through Worldwide Projects**
- **NextGen – SESAR State of Harmonisation Third edition**
- **Senate Gives Final Approval for FAA Reauthorization, Sends Bill to White House**
- **3.5 GHz CBRS Band Lands on FCC's October Agenda**
- **Surrey Board of Trade Announces 2018 Environment, Business Award Winners**
- **Next Gen Wireless Networks Summit**
- **FCC's 3.5 GHz CBRS Proposal Sparks Cheers, Fears**
- **China's aviation companies a first-class investment**
- **FCC Set to Finalize CBRS Auction Rules with 10-Year Licenses by County, WISPA Not Pleased**
- **IoT Solutions World Congress will focus on the role of Women with the Women Leadership in IoT panel**
- **AeroMACS for Air-To-Ground Communication and Connectivity to SWIM at ICAO Thirteenth Air Navigation Conference**
- **The European Team Gears up for ICAO's 13th Air Navigation Conference**
- **Runway Incursion Avoidance Research of CAAC, China at ICAO Thirteenth Air Navigation Conference**
- **FCC's Rosenworcel 'Exasperated' over Lack of Movement on 3.5 GHz CBRS Band**
- **Internet of People Event**

- **Boeing and Embraer Launch a Website to Present Their Upcoming Joint Venture**
- **FCC Presses on with Controversial Small Cell Plan**
- **FAA Inks Aviation Agreements with Brazil and Canada**
- **September 2018 WiMAX Forum Monthly Newsletter**

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