WiMAX FORUM® NEWSLETTER

MAY 2017

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INTRODUCTION

Dear Respected Colleague,

The **WiMAX Forum®** with the participation of our **member companies** is producing important work to advance the Aeronautical Mobile Airport Communications System (**AeroMACS**), **WiGRID™**, and the **WiMAX™ technology**.

On May 2, in Milwaukee, Wisconsin, the Airlines Electronic Engineering Committee (AEEC) adopted **ARINC Project 766: AeroMACS Transceiver and Aircraft Installation Standards**. The ARINC Project Paper 766 defines the installation characteristics for an airborne radio transceiver capable of high-speed wireless communication with an airport surface network using the WiMAX standard (IEEE 802.16e) in the protected and licensed aeronautical spectrum band of 5091 MHz to 5150 MHz.

On May 5, the WiMAX Forum participated at the International Federation of Air Line Pilots' Association (**IFALPA**) in Montreal, Canada. AeroMACS was presented to the participants and aviation industry as a key technology to support the increasing need for data communications in the airport surface and promote the safety and regularity of flight.

Also in May, a new WiMAX White Paper was published by **Siemens**. The paper describes the capabilities of WiMAX that have made it ideal for a variety of network applications. There is a large ecosystem of interoperable equipment available based on the IEEE 802.16e standard, which makes WiMAX an attractive solution compared to other proprietary best-effort radio systems that other manufacturers offer. To read the complete white paper, please click at the following link: **Building a Wireless Network on WiMAX**

The WiMAX Forum would like to extend a special welcome to this month's new member, **JEZETEK**. **Sichuan Jiuzhou Aerocont Technologies Co., Ltd. (JEZETEK)** is a subsidiary of Sichuan Jiuzhou Electric Group Co., Ltd. They are engaged and specialized in the R&D, manufacture, installation, sale and service of Air Traffic Control System, Communication equipment, Navigation System, Surveillance System and related instruments and testers. If you would like more information regarding the WiMAX Forum Membership benefits, please email **Membership@WiMAXForum.org**.

To foster a prosperous environment and future for the WiMAX ecosystem, the **WiMAX Forum Staff**, **Board of Directors**, **Working Group Representatives**, and **Members** will host, attend, and participate globally with speakers in key industry events throughout this year. Here is the summary of **upcoming events** that we are hosting and participating during the coming months:

• **ACI-NA** will be held on September 17-20, 2017 in Fort Worth, Texas. The WiMAX Forum will exhibit AeroMACS at Booth 346 during the ACI-NA Conference.

Through our events, speaking opportunities, seminars, and webinars, we are reaching out to diverse audiences in the WiMAX community. 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 each and all stakeholders. Our focus has been to share key lessons, concrete knowledge, and work together for the benefit of the industry.

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 latest communications and most relevant activities.

• **White Paper: Building a Wireless Network on WiMAX**
Byline: Mike Dalton at **Siemens**

WiMAX is not Wi-Fi and it is not a cellular network, but it has important characteristics of both. WiMAX uses the IEEE 802.16e standard, so it is not a proprietary system. For the right applications, it offers many advantages without the drawbacks of the more common and more heavily deployed alternatives. Siemens can show how this versatile and under utilized wireless networking technology can be a practical and economical approach for your broadband coverage applications.

To read the complete white paper, please click here.

EVENTS

In the coming months, the WiMAX Forum will host, participate and attend events globally. We continue our efforts to bring you quality events 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. The following is the summary of the upcoming events:

Agile Dev Better Software DevOps WEST — A TECHWELL EVENT	June 4-9, 2017 Las Vegas, Nevada For more information, please visit: **Agile Dev, Better Software, & DevOps West**
TELECOM FORUM COLOMBIA	June 7-8, 2017 Bogotá, Colombia For more information, please visit: **Telecom Forum Colombia**

	June 8, 2017 Eindhoven, The Netherlands For more information, please visit: **Internet of Things Event**
	June 12-13, 2017 Berlin, Germany For more information, please visit: **Security of Things World**
	June 14-15, 2017 Berlin, Germany For more information, please visit: **Autonomous Systems World**
	28 June - 1 July, 2017 Shanghai, China For more information, please visit: **Mobile World Congress Shanghai**
	July 03-04, 2017 Singapore, Malaysia For more information, please visit: **Industry of Things World Asia**
	August 22-23, 2017 Rio de Janeiro, Brazil For more information, please visit: **BSS&OSS Latin America**
	August 22-23, 2017 Rio de Janeiro, Brazil For more information, please visit: **Revenue Assurance & Fraud Prevention Latin America**
	August 22-23, 2017 Rio de Janeiro, Brazil For more information, please visit: **Customer Experience Management, Big Data & Analytics**

	September 6-7, 2017 Lima, Peru For more information, please visit: **Telecom Forum Peru**
	September 6-8, 2017 Chicago, Illinois For more information, please visit: **Smart Cities Summit**
	September 17-20, 2017 Fort Worth, Texas For more information, please visit: **AeroMACS – Exhibition at ACI-NA**

Sponsorship Opportunities: Increase your presence at the WiMAX Forum events through a sponsorship! Our high-profile events offer sponsors excellent visibility before, during and after the event. For more information about which event sponsorship may best suit your needs, please contact Alessandra Rocha at **Alessandra.Rocha@WiMAXForum.org**.

The WiMAX Forum plans to host and participate in other events over the course of 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.

The WiMAX Forum would like to extend a special welcome to the new members for 2017:

- **Austro Control**
- **JEZETEK**

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 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** focus on **AeroMACS**, **Smart Energy**, and various spectrum access solutions.

The Aviation Working Group (AWG) continues its focus in three areas: AeroMACS Public Key Infrastructure (PKI), Product Certification for AeroMACS, and the FCC Policy Petition. With much progress and many vital conversations taking place in AWG, it is a crucial time and a great opportunity to influence and leverage these activities. If you or your company is interested in participating in our **Working Groups**, please contact us at **info@WiMAXForum.org**.

AWG members attended the **ICAO** Aeronautical Communications Panel Working Group I meeting in May to finalize the assignment of OID designations to support the AeroMACS PKI Certificate profile. They will continue to collaborate with ICAO so that the AeroMACS PKI Policy will support and align with industry requirements. The AWG PKI Certificate Policy will serve as the governing document and basis for AeroMACS PKI as well as serve as a PKI model for other Aviation technologies. The AWG is completing an AeroMACS PKI proof of concept trial to confirm the PKI Certificate Profiles and Policy as a last step to commercializing AeroMACS PKI.

The AWG Certification Task Group is driving the development of test specifications and procedures for Protocol Conformance Tests (PCT) and has started the process of validating these procedures in the WiMAX Forum AeroMACS Designated Certification Laboratory. Interoperability Tests (IOT) to support Certification for AeroMACS will be next as additional products enter the lab for Radio Conformance Testing (RCT). With all validation complete in 2017, the Forum will offer full AeroMACS certification.

The Forum submitted its Service Rule petition in March to the FCC for the use of AeroMACS Spectrum in the United States. This Service Rule petition will set the ground rules for exploitation of the spectrum for the next 20 years. To read more, please visit: **The WiMAX Forum Files FCC Petition for AeroMACS Service Rules**.

The Smart Energy Working Group (SEWG) is discussing how a narrowband solution can meet smart energy communication needs and monitoring the activity around the FCC's CBRS rules. SEWG members also plan to further influence the FCC's CBRS rules that regulate the 3.5 GHz band and to form a viable shared spectrum ecosystem in the United States. The reply comments to the FCC have been in favor of increasing the protection for grandfathered 3650-3700 MHz zone that has been included in the larger 3550-3700 MHz regulatory regime.

The WiMAX Forum **Working Groups** are the key to the development of WiMAX technology. Working Groups are chartered by the WiMAX Forum to bring together content experts from member companies to contribute to and harmonize documents and specifications and perform other tasks that the WiMAX Forum has determined to be necessary or useful. Members of the forum have the opportunity to participate as officers of working groups when there are vacancies and to vote on working group output.

The WiMAX Forum organizes its technical activities through a number of Working Groups that produce technical requirements, develop technical specifications, or advise the forum. These groups are coordinated by the Technical Steering Committee. The WiMAX Forum Working Groups include:

- **AWG** - Aviation Working Group - *Procedures, Profiles & AeroMACS Initiative*
- **SEWG** - Smart Energy Working Group - *Requirements & WiGRID Initiative*
- **SPWG** - Service Provider Working Group - *Requirements & WiMAX Advanced Initiative*
- **TWG** - Technical Working Group - *Technical*
    - **CTG** - Certification Task Group - *Technical*
    - **NTG** - Network Task Group - *Technical*

We have a lot to get done in the new year and we need the help of your technical experts in these groups. This is especially true for the Aviation Working Group as they prepare for the next wave of AeroMACS Certification and finalizing a PKI solution for the industry. If you are not a member of a Working Group yet, you can request to join on the group's **Home Page**.

You can learn more about the Working Group activities by visiting the member's workspace area and viewing the outcome of recent Working Group sessions or joining groups to receive emails related to that group's activities. Working Group activity is integral to the success of the Forum. To find more information on our Working Groups, please visit: **www.wimaxforum.org/Page/About/Working-Groups**.

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:

- **Southwest air traffic control network company and civil aviation data company to discuss AeroMACS cooperation matters**
- **Research on C-band airport open-air communication network using WiMAX technology**
- **Notice of Data Link Forum Tokyo 2017 with Focus on AeroMACS**

- **ICAO highlights the role of aviation at high-level dialogue in Beijing**
- **FCC Begins Rollback of Net Neutrality Rules**
- **GOP continues push to privatize air traffic control**
- **Learning to share: CBRS, 3.5 GHz and beyond**
- **Internet of Things Event will take place on June in The Netherlands**
- **Small Cell Forum targets 5G with latest specifications**
- **Don't let funding delays keep Americans on the ground: Invest in aviation now**
- **From 5G to 6G: National Instruments shares a preview of the future**
- **Will ATC be Separated From FAA in 2021?**
- **From Research to Action | EPRI's Telecommunications Initiative: Taxonomy Providing Wireless Opportunities and Options**
- **In Pursuit of Affordable Internet Access**
- **US Lawmakers to Consider Future FAA Structure**
- **IoT standards battles could get messy**
- **Andean Telecom Forum in June in Bogota, Colombia**
- **Consumer enablement: the future is now**
- **Shuster Statement from Hearing on FAA and Air Traffic Control reform**
- **GAO warns IoT system security spread too thin could create cyber gaps, increase risk of attack**
- **The Air Traffic Control System Is a Miracle, Handle with Care**
- **AeroMACS Aircraft Installation Standards and other 10 new ARINC Standards adopted by AEEC Executive Committee**
- **Japan tops 162 mln mobile subscribers in March**
- **The case against privatizing the nation's air traffic control system**
- **International Mobile Technology Expo on May in Mumbai, India**
- **Passage of FAA Funding Bill Draws Industry Praise**
- **Lebanese ISP taps InfiNet Wireless for network infrastructure**
- **Analyst Angle Webinar: Learning to share. CBRS in the 3.5 GHz band changes how we use spectrum**
- **One in two Nepalis use internet: NTA report**
- **Why you need to install NextGen sooner, rather than later**
- **SCWS World and Avren's LPWA will be held in London this May**
- **White Paper: Building a Wireless Network on WiMAX**
- **Namibia: Telecom Namibia Expands Broadband Reach**
- **FAA Set for Small Funding Boost in Federal Funding Bill**
- **IoT World and Connected Autonomous Vehicles to be held on May at Santa Clara Convention Center**
- **Rewarded for our efforts in global harmonisation and research in digital avionics**
- **SC-223, Internet Protocol Suite (IPS) and AeroMACS**
- **More than 7 per cent rise in number of fixed phones in Oman**
- **Airbus, Boeing Support New Standards for GADSS**

- **Qualcomm reportedly to push for iPhone import ban in U.S.**
- **What to Expect at the 2017 AEEC/AMC Conference**
- **FCC Outlines Additional Steps for Incumbent Licensees in the 3.5 GHz Band to Establish Grandfathered Protection Zones**
- **Learning to share. CBRS in the 3.5 GHz band changes how we use spectrum**
- **Action Alert: 4 Reasons To Install "NextGen" Equipment In Business Aircraft Sooner Than Later**
- **Star East 2017 Event on May 7 in Orlando, Florida**
- **Global standards, cooperation and data key to keeping aviation safe**
- **CBRS Alliance elects CTIA spectrum expert Anuszkiewicz to board seat**
- **SESAR/NextGen at Paris Air Lab Exhibition**
- **April 2017 WiMAX Forum Monthly Newsletter**

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