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WiMAX FORUM® NEWSLETTER

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IN THIS ISSUE

- **Introduction**

- **Industry Spotlight**

- **Events**

- **Membership Services**

- **Working Groups**

- **WiMAX Forum News**

INTRODUCTION

Dear Respected Colleague,

While much of the world has been away enjoying summer holidays, we at the **WiMAX Forum®** have been producing important work to advance the Aeronautical Mobile Airport Communication System (**AeroMACS**), **WiGRID**, and the **WiMAX** technology with the participation of our **Board of Directors**, **Working Group Representatives**, and **Member Companies**

The United States Federal Communications Commission (FCC) has issued a **Public Notice (PN)** in response to the WiMAX Forum's **AeroMACS Petition for Rulemaking** in July 2017. As you know, this is a very high priority for the AeroMACS community. Comments have been filed electronically, and can be reviewed under "Specific Proceeding" **RM-11793**. Responses are due to the FCC no later than September 5, 2017.

We remain completely at your disposition should you have any questions, comments or concerns and I would be delighted to speak with you should you care to discuss this personally. You may contact us at **info@WiMAXForum.org**.

Last month, the ARINC Characteristic 766 – Aeronautical Mobile Airport Communication System (AeroMACS) Transceiver and Aircraft Installation Standards was officially published. ARINC 766 defines the aircraft installation characteristics of an airborne radio transceiver capable of broadband wireless communication with an airport surface network. The AeroMACS Radio Unit (ARU) will operate in the protected frequency of 5091 MHz to 5150 MHz, utilizing the IEEE 802.16e WiMAX protocol. It is intended to offload some of the congested narrowband VHF airport traffic used for Aviation Technical Services (ATS) and Airline Operational Control (AOC) communications. ARU and antenna form, fit, function, and interfaces are described. For more information, please click **here**.

This month, we are preparing to participate in the **ACI-NA Conference** on September 17-20, 2017 in Fort Worth, Texas. The WiMAX Forum Leadership will be located at the AeroMACS **Booth 346** near AeroMACS industry leader and WiMAX Forum Member Siemens Booth 344. Come learn more about **AeroMACS at ACI-NA Exhibition**, and we would be happy to tell you all about AeroMACS solutions and developments.

The WiMAX Forum has been preparing to participate at key industry events for the remainder of 2017 and continuing to bring the highest value to the WiMAX community as the market share expands. Here is the summary of an upcoming event that we are participating during the coming months:

• The WiMAX Forum President **Declan Byrne** will present AeroMACS at the **Avionics for NextGen** November 15, 2017 at 4:30-5:30PM in Herndon, Virginia. The **AeroMACS presentation at Avionics for NextGen** will highlight the latest developments and worldwide deployments.

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.

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 all stakeholders. 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. Enjoy the rest of summer, and we hope to see you at one of the upcoming events.

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.

• **Important Message to AeroMACS Ecosystem**
FCC Requests Comments on AeroMACS Petition

The WiMAX Forum has spent the better part of a year and a half discussing the elements of this Petition with interested stakeholders, and we salute the Commission for highlighting the key areas for consideration and comment. In your comments to the Commission, we ask you specifically to urge the FCC to adopt a Notice of Proposed Rulemaking with proposed service rules. The AeroMACS spectrum has been available for some time now and many equipment manufacturers have commercial kits available for deployment. Our labs are currently certifying two manufacturers' equipment for compliance to AeroMACS standards. More equipment manufacturers are lining up to certify and deliver to the market innovative products and services dependent on AeroMACS spectrum being available. Many airports are waiting on the FCC Rulemaking to commence their own pilots and deployments. We believe there is broad consensus on the value of this spectrum to our ecosystem and finally ask you to **URGE THE COMMISSION TO TAKE ACTION QUICKLY.**

To read the entire information about the petition, please click here.

• **ARINC 766 Defines Aircraft Installation Standards for AeroMACS Implementation**
Upgrading Wireless Communications with AeroMACS and Establishing the Safety and Regularity of Flight on the Airport Surface

The WiMAX Forum is pleased to recognize the publication of ARINC 766: Aeronautical Mobile Airport Communication System (AeroMACS) Transceiver and Aircraft Installation Standards, which specifies the form, fit, and function for AeroMACS to be installed in aircraft. The Airlines Electronic Engineering

Committee (AEEC) produced this consensus-driven technical standard to define AeroMACS installation characteristics, bringing the industry closer to widespread AeroMACS implementation around the globe. ARINC 766 defines the avionics equipment capable of providing AeroMACS connectivity on the aircraft, containing the physical dimensions, the electrical interface, and a description of the functions, operations, and interfaces of an AeroMACS Radio Unit (ARU) on commercial aircraft. This document contains specifics on interchangeability standards, system design considerations, interfaces and protocols, Management Information Base (MIB), and antenna specifics. Additionally, the project paper identifies more applications for Aviation Technical Services (ATS), Flight Information Services (FIS), and Airline Operational Control (AOC).

To read the complete 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:

	AeroMACS Booth 346 September 17-20, 2017 Fort Worth, Texas For more information, please visit: **AeroMACS - Exhibition at ACI-NA**
	AeroMACS Presentation November 15, 2017 Herndon, Virginia For more information, please visit: **AeroMACS Presentation at Avionics for NextGen**

Upcoming Events:

	September 6-7, 2017 Lima, Peru For more information, please visit: **Telecom Forum Peru**

INDUSTRY OF THINGS WORLD	September 18-19, 2017 Berlin, Germany For more information, please visit: **Industry of Things World**
NFV & Carrier SDN September 26-28 | Westin Westminster | Denver, CO Light Reading KNect 365	September 28-29, 2017 Denver, Colorado For more information, please visit: **NFV & Carrier SDN**
STAR WEST A TECHWELL EVENT	October 1-6, 2017 Anaheim, California For more information, please visit: **StarWest**
CLOUD EXPO ASIA SMART IOT SINGAPORE	October 11-12, 2017 Singapore For more information, please visit: **Cloud Expo Asia**
STAR CANADA A TECHWELL EVENT	October 15-20, 2017 Toronto, Canada For more information, please visit: **STARCANADA**
Enterprise IoT World	October 16-17, 2017 Chicago, Illinois For more information, please visit: **Enterprise IoT World**
Smart Cities Summit	October 16-17, 2017 Chicago, Illinois For more information, please visit: **Smart Cities Summit**
IoT Security Summit	October 23-24, 2017 New York, NY For more information, please visit: **IoT Security Summit**

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 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.

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

- **Austro Control**
- **Comodo Group Inc.**
- **Eonti**
- **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** are the key to the development of WiMAX technology, currently focusing on **AeroMACS** and **Smart Energy**.

The Aviation Working Group (AWG) drives technical activity in three areas: AeroMACS Public Key Infrastructure (PKI), Product Certification for AeroMACS, and the FCC Policy Petition. It is a crucial time and a great opportunity to influence and leverage these activities so if you are interested in participating in our **Working Groups**, please contact us at **info@WiMAXForum.org**.

Last month, the WiMAX Forum initiated a partnership with Eonti to manage and implement **AeroMACS PKI**. This partnership will give the Forum the expertise needed as the Management Authority for AeroMACS PKI. The WiMAX Forum and International Civil Aviation Organization (ICAO) are finalizing an agreement to collaborate in the oversight of AeroMACS PKI for the ecosystem. The AeroMACS Certificate Policy (CP) is mostly complete and can be published once the agreement is in place.

The AWG is in the process of completing an AeroMACS PKI proof of concept trial to confirm the PKI Certificate Profiles and Policy as a last step to start commercializing AeroMACS PKI.

The AWG Certification Task Group is developing test specifications and procedures for Protocol Conformance Tests (PCT) and validating these procedures in the WiMAX Forum AeroMACS Designated Certification Laboratory. The development of Interoperability Tests (IOT) procedures to support AeroMACS certification is ongoing as additional products go through Radio Conformance Testing (RCT).

The WiMAX Forum organizes its technical activities through a number of Working Groups that produce technical requirements, develop technical specifications, or advise the forum. Working Groups are chartered by the WiMAX Forum to bring together content experts from member companies. These experts contribute to and harmonize documents and specifications and perform other tasks that the WiMAX Forum has determined to be necessary or useful. Technical Steering Committee coordinates all the Working Groups, which 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*

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 August:

- **Last of Citizens Broadband Radio Service Rules Become Final**
- **AeroMACS Research and Application Development**
- **Mobile Broadband Is a Major Growth Opportunity as Libya Reforms Sector – R&M**
- **New Wireless Innovation Forum Projects and Initiatives, Including Those in CBRS Band, Highlighted in FY2018 Operations Plan**
- **Improved Communication Between Our Pilots and ATC – Without Even Talking**
- **StarWest in Anaheim California this October**
- **Security Companies Give Public Free Way to Sift Through Malware**
- **NBAA Comes Under Fire in ATC Battle**
- **AeroMACS Explained**
- **Airbus Supports WiMAX Forum Push for Airport Communications Rules**
- **Don't Miss ACI-NA in Fort Worth, TX with AeroMACS Exhibition at Booth 346**
- **FAA to 'Transform' Flight Ops Oversight**
- **FCC Commences Major Study of Spectrum Management Issues Involving "Mid-Band" Frequencies**
- **Twenty First RTCA SC-223 Internet Protocol Suite (IPS) and AeroMACS Plenary**
- **NFV & Carrier SDN Event in Denver Colorado**
- **Comodo opens up threat library to public – almost 100m incidents in Q217 alone**
- **Don't privatize air traffic control**
- **Google Resists As Carriers, Vendors Renew Push for Rule Changes in 3.5 GHz Band**
- **Siemens Paves the Way for the Deployment of Reliable High-Speed Wireless Network for the Airport**
- **Optimize the Capacity of WiMAX Networks with Bandwidth Recycling**
- **FAA's Data Comm Progress Belies Criticism Over NextGen**
- **GE wants to test CBRS in the air**
- **Japan ends June with 163 mln mobile subscribers**
- **Two important events on September 6 – Don't miss Telecom Forum Peru in Lima and Smart Cities Summit in Chicago**
- **FAA to Give $167M to 64 Airports as Part of Improvement Program**
- **Auction expert backed by Wi-Fi group, WISPA advocates for auction tailored to 3.5 GHz**
- **Senate Appropriators Reject Air Traffic Control Privatization**

- **AeroMACS Presentation at Avionics for NextGen this November**
- **EWA Evaluating Impact of Proposal on AeroMACS**
- **FAA's Data Communications Program Reaches One-Millionth Flight Milestone; Implementation Approved at 7 Additional Airports**
- **Leonardo CEO sees reaching investment grade rating as key priority**
- **Wireless Outsiders Could Boost American Tower's Carrier Base**
- **Three Co-hosted Events this Month Bring Executives from the Latin American Operator Areas to Rio de Janeiro, Brazil**
- **FCC's O'Rielly makes case for rule changes at CBRS Alliance meeting**
- **T-Mobile CTO: We're focused on 3.5 GHz—not on 2.5 GHz**
- **Improved communication between our pilots and ATC – without even talking**
- **AeroMACS Exhibition at ACI-NA Booth 346 in Dallas this September**
- **RigNet Announces Strategic Asset Acquisition of Data Technology Solutions (DTS)**
- **WISPA objects to 3.5 GHz rule changes proposed by CTIA, T-Mobile**
- **House bill to reform air traffic control pushed back until September**
- **Committee Addressing Current and Future NextGen Implementation**
- **Telematics India to be Held in Pune on August 17 and 18**
- **A look at the future of FAA policy**
- **Editor's Corner—Google vs. T-Mobile, AT&T, Verizon in 3.5 GHz showdown**
- **Hong Kong minister hits back at 5G criticism**
- **July 2017 WiMAX Forum Monthly Newsletter**

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