WIMAX FORUM® NEWSLETTER

APRIL 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 **WiMAX technology**.

On March 29, the WiMAX Forum President **Declan Byrne** presented the latest developments about AeroMACS to participants at the **ACI-NA Airports@Work** Conference in Las Vegas, Nevada.

On March 31, the WiMAX Forum submitted a petition to the Federal Communications Commission (FCC) to request adoption of service rules for AeroMACS. With the increasing need for secure wireless communication on the airport surface, these service rules are crucial to promoting the safety and regularity of flight once AeroMACS is widely deployed at airports within the United States. By drafting and filing this Petition, the WiMAX Forum seeks to keep it simple and fair for all stakeholders to implement AeroMACS effectively and efficiently without interference and consistent with FCC precedent. To read the full submission, please click **here**.

On April 18, at **ICNS 2017** in Herndon, Virginia, WiMAX Forum President Declan Byrne discussed "Secure Broadband Connectivity for Aviation D-Taxi via AeroMACS" at the Data Link Communications Session. Other AeroMACS presentations were made by Avicom "AeroMACS Field Trial at Haneda Airport" and MITRE "AeroMACS Analyses and Simulations for Spectrum Planning". The WiMAX Forum **Aviation Working Group (AWG)** and member companies met Face-to-Face to continue the discussions after the conclusion of the ICNS conference.

The WiMAX Forum would like to extend a special welcome to this month's new member, **Austro Control**. **Austro Control** is responsible for safe, reliable, and efficient air traffic throughout the Austrian airspace. 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:

• **IFALPA** will be held on May 5-8, 2017 at Hotel Bonaventure in Montreal, Canada. The WiMAX Forum will exhibit AeroMACS during the IFALPA Conference.

• **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 great end of month and 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 latest communications and most relevant activities.

• **The WiMAX Forum Files FCC Petition for AeroMACS Service Rules Adoption**
These Service Rules Will Allow Expansive AeroMACS Deployment in the United States

The WiMAX Forum® submitted a petition to the Federal Communications Commission (FCC) on March 31, 2017, requesting adoption of service rules for the Aeronautical Mobile Airport Communications System, better known as AeroMACS. With the increasing need for secure wireless communication on the airport surface, these service rules are crucial to promoting the safety and regularity of flight once AeroMACS is widely deployed at airports within the United States. The spectrum to be used by AeroMACS in the 5091-5150 MHz band already has been allocated for AeroMACS use, while the FCC is expected to shortly allocate 5000-5030 MHz for AeroMACS. Today's filing proposes the specific technical and licensing rules that are required before AeroMACS usage can become routine in the US. **To read the complete press release, please click here**.

• **The Need for AeroMACS Is Confirmed**
The Demand for Aeronautical Mobile Airport Communication System (AeroMACS) Grows

A half-day **AeroMACS Symposium**, hosted by the WiMAX Forum® at World ATM Congress this month, demonstrated the growing need for **AeroMACS** in not only Europe, but also worldwide. At the Symposium on the future of AeroMACS, we shared the results of a survey carried out by **EUROCONTROL**, the European Organization for the Safety of Air Navigation, which showed the interest in AeroMACS among European stakeholders. The International Civil Aviation Organization (**ICAO**) and the Federal Aviation Authority (**FAA**) have recommended AeroMACS as the solution to support airport surface communication for the safety and regularity of flight. **To read the complete press release, 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:

WiMAX FORUM® AeroMACS @IFALPA 2017 EXHIBITION MONTREAL, CANADA | MAY 4-8	May 5-8, 2017 Montreal, Canada **AeroMACS Exhibition!** For more information, please visit: **IFALPA**
STAR EAST A TECHWELL EVENT	May 7-12, 2017 Orlando, Florida For more information, please visit: **STAREAST**
MVNOs Latin America	May 15-16, 2017 Mexico City, Mexico For more information, please visit: **MVNOs Latin America**
5G North America	May 15-17, 2017 Austin, Texas For more information, please visit: **5G North America**
LightReading **Big Communications Event** MAY 15-17, 2017 | AUSTIN CONVENTION CENTER | AUSTIN, TX	May 15-17, 2017 Austin, Texas For more information, please visit: **Big Communications Event**
Connected & Autonomous Vehicles	May 15-18, 2017 Santa Clara, California For more information, please visit: **Connected & Autonomous Vehicles**

Internet of Things World	May 15-18, 2017 Santa Clara, California For more information, please visit: **Internet of Things World**
Saudi Smart Cities Conference 2017 16-18 May 2017 | Intercontinental Hotel, Riyadh, KSA	May 16-18, 2017 Riyadh, KSA For more information, please visit: **Saudi Smart Cities**
International Mobile Technology Expo	May 19-20, 2017 Mumbai, India For more information, please visit: **International Mobile Technology Expo**
CommunicAsia2017 Summit	May 23-25, 2017 Singapore For more information, please visit: **CommunicAsia2017**
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**
Internet of Things Event Jun 8, 2017 High Tech Campus Eindhoven The Netherlands www.iotevent.eu	June 8, 2017 Eindhoven, The Netherlands For more information, please visit: **Internet of Things Event**

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 member for 2017: Austro Control.

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) met Face-to-Face on April 20-21, 2017 in Herndon, VA on the margins of the **ICNS Conference** to advance three key initiatives: AeroMACS Public Key Infrastructure (PKI), AeroMACS Certification, and the FCC Policy Petition. With much progress and many vital conversations taking place in the AWG PKI Task Group and Certification Task Group, 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 the TSC Chair Rich Hawkins at **Rich.Hawkins@WiMAXForum.org**.

The AWG is in the final stages of the AeroMACS PKI proof of concept trial to confirm the PKI Certificate Profiles and Policy as a last step to commercializing AeroMACS PKI. Additionally, AWG members will attend **ICAO** Working Groups meeting in May 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 Certification Task Group is driving the development and validation of the specifications and procedures for Protocol Conformance Tests (PCT) and Interoperability Tests (IOT) to support AeroMACS Certification with additional products in 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 on March 31 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 April:

- **AEEC General Session Could Establish New ARINC Standards**
- **5G North America on May in Austin Texas**
- **How much progress is Europe making on the Single European Sky project?**
- **National fibre network – 24 more towns covered, 40 existing sites upgraded**
- **m:tel wins 3.5GHz band licence at auction**
- **FAA reform brings potential policy shift**
- **US bizav state case opposing ATO spin-off**
- **NextGen at UPS**
- **New FCC web portal opens for 5G experimenters**
- **NextGen Data Communications Highlights**
- **Telecom Alert, April 10, 2017 - 3.65 Public Notice; FirstNet, AT&T Ensure Preemption for Opt-In States; Auction Task Force & BDAC Members Announced; WiMax Forum Petition for Rulemaking; NTIA Workshop; Connected Product Intensive**
- **China's Business Aviation Industry Gets Backing from Leaders**
- **New Wireless Innovation Forum Specification Addresses Channel Assignment Process for Priority Access Licensees in Citizens Broadband Radio Service Band**
- **Don't privatize air traffic control**
- **SkyFusion grows stronger with FAA and EUROCONTROL participation**
- **Webinar: Learning to share. CBRS in the 3.5 GHz band**
- **The aviation community comes together to discuss the Future Sky Safety research**

programme

- **Agile Dev, Better Software & DevOps West Register Now and Receive an Additional $200 Discount**
- **AeroMACS Participation at IFALPA in Montreal – May 2017**
- **World ATM Now Highlights Edition**
- **East China Aviation Administration and China Civil Aviation Second Institute held a strategic cooperation to promote the meeting**
- **Telecom Namibia expands WiMAX to rural areas**
- **Spectrum as a shared resource. Light-licensing models for 3.5 GHz band open new ways to deploy and operate networks**
- **75% of the inhabitants of the region of Molina de Aragón (Guadalajara) already have 4G**
- **Africom: Your fixed internet service provider of choice**
- **Can your rural business telecoms be improved?**
- **Visit to ENAV's ATM Modernisation Projects shows SESAR Deployment in Italy**
- **The WiMAX Forum Files FCC Petition for AeroMACS Service Rules Adoption**
- **FAA and Brazil Strengthen Aviation Partnership**
- **SESAR Deployment Manager signs MoU with manufactoring industry**
- **Pakistan tops 41 million broadband customers**
- **Wireless China Industry Summit**
- **CBRS, Analytics, Enterprise, IoT: what's next at Senza Fili**
- **Monte la Reina | A well connected cellar**
- **AEEC Data Link (DLK) Systems Subcommittee/RTCA SC-214 VDLSG/EUROCAE WG-92 Meeting**
- **Industry Involvement Key to Integration, FAA Officials Say**
- **China Civil Aviation Authority News**
- **ICAO calls for cockpit cameras in all newly-designed planes by 2023**
- **March 2017 WiMAX Forum Monthly Newsletter**

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