

The header features a dark blue background with a glowing green and blue globe. The globe is overlaid with a network of white and blue lines, representing a global communication network. The WiMAX Forum logo, a stylized white 'W' with a blue dot, is positioned to the left of the text.

# WiMAX FORUM<sup>®</sup> NEWSLETTER

JUNE 2016

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## INTRODUCTION

Dear Respected Colleague,

The **WiMAX Forum** along with our **member companies** continues to attend and participate in very important, well-received industry **events** to grow the market for WiMAX technology and address the needs of the WiMAX community.

At the end of May, Alope Roy at **Honeywell** published an article about AeroMACS and the technology differentiators. Among other capabilities, AeroMACS enables a pilot to navigate the airport like a real-time car GPS. It digitally sends pilots real-time visual cues and alerts, so they are aware of any dangers. To read the complete article, please click at the following: **[AeroMACS: It's like a Real-time GPS, but Better!](#)**

On June 13, **EUROCONTROL** published the Aeronautical Mobile Airport Communication System (AeroMACS) factsheet, the new-generation airport datalink for airlines, airport authorities and air navigation service providers to stay connected at airports. To read the complete publication, please click at the following: **[Aeronautical Mobile Airport Communication System \(AeroMACS\) Factsheet.](#)**

On June 19, WiMAX Forum President **Declan Byrne** participated in the **7th U.S.-China Aviation Summit**. The Summit was an excellent opportunity to engage with China's senior aviation leaders in substantive discussions on aviation policies, commercial opportunities, trade opportunities, and best practices in China's growing aviation sector.

This month, the WiMAX Forum continues to stay busy preparing for an exciting series of Aviation events at which we will host an **AeroMACS** summit or present to raise awareness about the technology. This year promises much progress for the AeroMACS market, which is derived from our efforts in developing certification and security as well as our continuation in hosting and participating in several industrial events. The WiMAX Forum will participate in the below events:

- **Wireless China Industry Summit 2016** on September 7-8 at the JW Marriott Beijing Central in Beijing, China.
- **ACI-NA/World Annual Conference & Exhibition 2016** on September 25-28 at the Palais des congrès de Montréal in Montreal, Canada.
- **61st Annual ATCA Conference & Exhibition 2016** on October 16-19 at the Gaylord National Resort and Convention Center in National Harbor, MD, USA.
- **Airport Exchange 2016** (ACI Europe) on November 17-19 at the Istanbul Congress Center in Istanbul, Turkey.

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. Please stay tuned for more details and look for information on our **upcoming events** to be announced as of yet.

If you have any questions, please do not hesitate to reach out to us.

We at the WiMAX Forum wish you a great rest of the month and we hope to see you at one of the upcoming events.

Best Regards,

WiMAX Forum

## EVENTS

In the following months, the WiMAX Forum will continue to stay busy planning and attending events. We will continue our efforts to bring you quality events directly hosted by the WiMAX Forum, and we will be present and participate at key industry events. The WiMAX Forum team looks forward to seeing you at of these events.

The following is the summary of the upcoming events:



**GSMA Mobile World Congress Shanghai** will showcase the incredible possibilities offered by mobile. Senior industry professionals will gather, network, learn new ideas and make important connections to grow their business in coming years. Passionate consumers will meet to discover the latest devices and innovative technologies. Make plans to join us in **Shanghai, 29 June - 1 July 2016**, where our global audience will celebrate the individuality of mobile.

**The WiMAX Forum is proud to be a supporting organization!**

For more information and event registration, please visit: [GSMA Mobile World Congress Shanghai 2016](#).



Co-located with CTIA's Super Mobility, the **2016 Tower & Small Cell Summit (TSCS)** will cover the full range of technology, management and business issues the wireless infrastructure professionals confront. Understanding the technology is essential, and TSCS provides unmatched insight into how to generate new revenues, manage costs and maximize the value of your wireless infrastructure assets – technical, human and real estate. It will take place **on September 7-9, 2016 in Las Vegas, NV.**

**The WiMAX Forum is proud to be a supporting organization!**

For more information and event registration, please visit: [Tower & Small Cell Summit 2016](#).



The **BSS & OSS** session will focus on Operations Support Systems and Business Support Systems. Working with OSS and BSS always meant to adapt, change, adjust, improve, and upgrade. It means knowing exactly what is going on from end to end, including all network elements. All fixed and mobile parts make up the connected society. The network must be planned to function in the best possible way. It will take place **on September 20-21 at Windsor Marapendi, Rio de Janeiro, Brazil.**

**The WiMAX Forum is proud to be a supporting organization!**

For more information and event registration, please visit: [BSS & OSS 2016](#).



**IoT Security 2016** brings together 250+ senior decision makers, influencers, buyers, stakeholders and security experts under one roof, Internet of Things Security is a must attend event for any business wishing to break into this market or sustain their position as a leader in this rapidly expanding sector. It will take place **on September 21-22, 2016 in Washington, D.C., USA.**

**The WiMAX Forum is proud to be a supporting organization!**

For more information and event registration, please visit: [IoT Security 2016](#).

**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](mailto:Alessandra.Rocha@WiMAXForum.org).

The WiMAX Forum plans to host and participate in other events over the course of 2016. 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](#).**

## INDUSTRY SPOTLIGHT

### **AeroMACS: It's like a Real-time GPS, but Better!**

*Author: Alope Roy at [Honeywell](#)*

Have you ever driven your car through thick fog in the middle of the night? It's not fun and it's not easy. You can't see very well and you are constantly wondering how close you are to the car in front of you. Well, airplane pilots have to deal with similar obstacles when taxiing a plane around an unfamiliar airport. When bad weather strikes, pilots can't see other vehicles or people on the taxiway that's where Honeywell's Aeronautical Mobile Airport Communication System (AeroMACS) comes in.

Among other capabilities, AeroMACS enables a pilot to navigate the airport like a real-time car GPS. It digitally sends pilots real-time visual cues and alerts, so they are aware of any dangers. Essentially, it allows a pilot to see that baggage truck moving on the runway using a high-level broadband communication system.

To read the complete article, please click [here](#).

### **Aeronautical Mobile Airport Communication System (AeroMACS) Factsheet**

*Author: [EUROCONTROL](#)*

AeroMACS is the new-generation airport datalink allowing airlines, airport authorities and air navigation service providers to stay connected at airports. AeroMACS is internationally standardised and globally harmonised, ensuring safety and regularity of flight communication exchanges at the airport surface.

AeroMACS can support services requiring high performance, stringent quality-of-service, security, broadcast, multicast and mobility capabilities. It can support mobile services as well as fixed services.

To read the complete publication, please click [here](#).

## WORKING GROUPS

The **WiMAX Forum Working Groups** focus on **AeroMACS**, **Smart Energy**, and various spectrum access solutions.

The Aviation Working Group (AWG) is focused on the follow key projects: AeroMACS Certification, AeroMACS PKI, and the FCC Policy Petition. Certification Task Group members are finalizing a list of Interoperability Tests (IOT) and Protocol Conformance Tests (PCT) to support AeroMACS Certification, having finalized the methodology for an approach to IOT and PCT.

The AWG PKI Task Group is in the final stages of completing the AeroMACS PKI Certificate Policy, summarizing Subscriber elements and other content that will be included in ICAO's Technical Manual and Guidance Material paving the way for a globally standardized PKI solution. AWG members have been working closely with **ICAO** Working Group S and Working Group I so that security policies produced in the group can serve as guidelines to other groups in the industry that are planning AeroMACS deployments as well as serving as a PKI model for other Aviation technologies. Additionally, the AWG is planning a PKI demonstration to highlight use cases and confirm the interoperability of AeroMACS PKI. The Forum is finalizing its Service Rule petition 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.

The Smart Energy Working Group (SEWG) members 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, waiting for the outcome from the FCC on grandfathered systems to decide on next steps. In December 2015, the WiMAX Forum submitted **comments** on grandfathered wireless protection zones in response to the FCC Wireless Telecommunications Bureau's Public Notice on its proposed methodology for defining the zone in which grandfathered 3650-3700 MHz licensees will receive interference protection during the transition of that band into 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:

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

- **GRWG** - Global Roaming Working Group - *Advisory*
- **RWG** - Regulatory Working Group - *Advisory*

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.

### **Your participation is important to the WiMAX community!**

Now is the time to get involved. With activities gaining serious momentum, it is a crucial time and a great opportunity to influence and leverage these activities. If you or your company is interested in participation in our [Working Groups](#) or a leadership role, please contact the TSC Chair Rich Hawkins at [Rich.Hawkins@WiMAXForum.org](mailto:Rich.Hawkins@WiMAXForum.org). To find more information on our Working Groups, please visit: [www.wimaxforum.org/Page/About/Working-Groups](http://www.wimaxforum.org/Page/About/Working-Groups).

## **MEMBERSHIP SERVICES**

The WiMAX Forum is committed to delivering the value necessary for our members to get the most of their association with the WiMAX Forum, and we are always happy to engage with individual members to discuss how the WiMAX Forum can better serve its membership. [WiMAX Forum Membership](#) provides a wide range of benefits and services that allows WiMAX Service providers to grow their networks and the vendor community to sell more equipment and services.

If you are interested in speaking with our leadership team on our specific initiatives or have questions regarding WiMAX Forum Membership, please send a message to [Membership@wimaxforum.org](mailto:Membership@wimaxforum.org).

**The WiMAX Forum is the best place for our members to access, leverage, and influence the growth and development of the WiMAX industry.** So be a leader in WiMAX and step up to get involved today!

## **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 June:**

- **Why Boeing and Airbus are Pushing for IPS**
- **SESAR Enabling Aviation Infrastructure - Aeronautical mobile airport communication system (AeroMACS)**
- **Aviation Data Link - Security, Segmentation, QoS**
- **ICAO Global Safety Update**
- **RTCA Internet Protocol Suite (IPS) and AeroMACS Meeting**
- **FCC chief wants to quit studying 5G and roll it out now with spectrum trifecta**
- **MTN commissions ICT hub for children with disabilities**
- **Almost half the population of Nepal now has internet access**
- **Air traffic control reform plan tied to looming deadline on FAA funding reauthorization**
- **Wheeler seeks new rules to open 'vast amounts of spectrum for 5G'**
- **AeroMACS: The new-generation airport datalink for airlines, airport authorities and air navigation service providers to stay connected at airports**
- **Siemens partners with Federated Wireless to Improve spectrum management, coverage and capacity for its customers**
- **Nomad designs WiMAX trackside system for Xorail**
- **AeroMACS Working Group Meeting Announcement**
- **Don't Take On-Time Arrivals for Granted**
- **The ATC Status Quo Benefits No One**
- **Smart Summit London 2016**
- **MTN Uganda launches Y'ello Care**
- **Intelligent IoT to 'permeate every vertical' as costs fall**
- **Aviation Data Link - Security, Segmentation, QoS**
- **Global partners deliver digitised and connected aviation**
- **What 5G Engineers Can Learn from Radio Interference's Troubled Past**
- **IoT Security 2016**
- **Fixed internet reaches just 11.6% of Costa Rica population**
- **BSNL gearing up to meet Assam govt's targets**
- **The internet of things finds a home in smart cities**
- **Indian operators to set up 70,000 telecom towers to curb call drops**
- **Mayors make final Smart City Challenge pitches**
- **NAC Updates on Latest Benefits, Challenges for NextGen Program**
- **Hitachi launches global brand campaign**
- **Scary Experimentation at 3.5 GHz**
- **Only Telenor interested in Pakistan auction**
- **Smart Urban Centre in Shanghai integrates Siemens' system**
- **Antenna Systems 2016 - Las Vegas**
- **GE wins major contract for Statoil's Johan Sverdrup development**
- **The 3.5 GHz Era Arrives**
- **Security must be the foundation of digital disruption**



- **Businesses lack clear IIoT implementation strategies**
- **Internet communications equipment to cost less**
- **AeroMACS: It's like a Real-time GPS, but Better!**
- **Video: NASA Tests a Ground-based Wireless System and more!**
- **FCC Adopts Sharing Plan for 3.5 GHz "Innovation Band"**
- **Tower & Small Cell Summit at Las Vegas, Nevada**
- **Global Avionics Mandates: Progress and Challenges**
- **House and Senate FAA Bills Take Diverging Flight Paths Toward Reauthorization**
- **Wireless Innovation Forum Commends FCC for Consideration of Forum Filings**
- **EU member states back mobile broadband plan**
- **Both the Senate and the House are moving forward with funding bills that include money for FAA operations through the 2017 fiscal year**
- **Multiple U.S. trials underway for shared 3.5GHz wireless spectrum**
- **May 2016 WiMAX Forum Monthly Newsletter**



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