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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 connections. The WiMAX Forum logo, a stylized white 'i' and 'M' shape, is positioned to the left of the text.

# WiMAX FORUM<sup>®</sup> NEWSLETTER

OCTOBER 2016

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## INTRODUCTION

Dear Respected Colleague,

The **WiMAX Forum** and its **member companies** maintained a blistering schedule of valuable activities over the past 60 days to support our initiatives. We have hosted, attended, and participated in important and well-received industry **events**, and we continue to bring the highest value to the WiMAX community as the market share expands.

September was full of aviation events that we hosted and participated in. On September 8, the WiMAX Forum hosted its third annual **AeroMACS Track at the Wireless China Industry Summit** in Beijing. The seminar focused on the benefits and the implications of the latest developments of AeroMACS networks in a growing market. In addition to the seminar, **Declan Byrne**, WiMAX Forum President, delivered a keynote address on "AeroMACS Gains Momentum: Industry Update."

On September 25-28, the WiMAX Forum with member companies **Siemens** and **Telrad Networks** exhibited **ACI-NA/World Annual Conference & Exhibition 2016** in Montreal. At the ACI-NA Solutions Showcase, Declan Byrne presented "AeroMACS—A Licensed Wireless Broadband Technology—Improving the Safety, Capacity and Efficiency of the Airport Surface," which was well received by the airports and the overall aviation community.



On the tail end of the ACI-NA/World Conference, Declan Byrne and industry experts participated in a panel discussion on the FAA's effort to position AeroMACS as an enterprise solution for bringing wireless broadband connectivity to airports; AeroMACS is already a large part of Europe's SESAR 2020 project. **Avionics for NextGen 2016** was held on September 28-29 in Washington.

This month, the WiMAX Forum hosted **AeroMACS 2016 – National Harbor** summit on October 18 and exhibited at the **61st Annual ATCA Conference & Exhibition 2016** to share the latest significant developments for the technology, which included new deployments at airports around the globe, certification, security with PKI, and more. The ATCA Conference was held on October 16-19 in National Harbor, MD, USA.



The WiMAX Forum would like to thank **CelPlan Technologies**, **PowerTech Labs Inc.**, **Siemens**, and **Telrad Networks** for its continuous support to AeroMACS. Additionally, the WiMAX Forum would like to give special thanks to **ADCC**, **Boeing**, **CelPlan Technologies**, **ConvergEX Technologies**, **Federal Aviation Administration (FAA)**, **Hitachi**, **Honeywell**, **International Civil Aviation Organization (ICAO)**, **Leonardo Company**, **PowerTech Labs Inc.**, **Siemens**, **Telrad Networks**, and the WiMAX Forum whose executives spoke about the recent AeroMACS deployments and the future of AeroMACS worldwide.

Next month, the WiMAX Forum along with its member companies will participate in the **AeroMACS Working Group** on November 3-4, 2016 in Annapolis, Maryland. The goal of this activity is to develop an aircraft IP-based transceiver intended for future Air Traffic Service (ATS) and Aeronautical Operational Control (AOC) broadband communication with an airport ground surface network. The AeroMACS Radio Unit (ARU) will operate in the protected AM(R)S C-band frequencies of 5091 to 5150 MHz, using the IEEE 802.16e-2009 WiMAX protocol.

The next few months promise much progress for the WiMAX market and specially AeroMACS, which is derived from our efforts in developing certification and security as well as our continuation in hosting and participating in several industrial events. 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.

Our 2017 renewal cycle is just around the corner. Members should expect to see communications soon to give our members ample time to pay their membership dues. For more information regarding your membership status, please send a message to **Membership@WiMAXForum.org**, and we will respond as quickly as possible.

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

We at the WiMAX Forum wish you all a prosperous end of the month, and we hope to see you at one of our upcoming events.

Best Regards,

WiMAX Forum

## EVENTS

In the following months, the WiMAX Forum will plan 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:

The logo for the Smart Home Summit features the words "Smart Home" in a bold, blue, sans-serif font, with "Summit" below it in a lighter blue, sans-serif font. The text is centered on a white rectangular background.

Building on the success of our flagship show Internet of Things World, the **Smart Home Summit** is the only 2-day event where you will meet key stakeholders, forge strategic partnerships, and cash in on the smart home by bringing interoperability to life and learning from the success & failure of the ecosystem's best and brightest. It will take place on **November 27, 2016 at Crowne Plaza, Palo Alto, CA.**

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

For more information and registration, please visit: [Smart Home Summit 2016](#). Receive a 15% discount with code **wm15**.



**Antenna Systems 2016** brings the industry together to evaluate new market opportunities, implement new technologies and discover future applications and technical developments. This symposium, taking place **November 3-4 in Las Vegas, NV**

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

For more information, please visit: [Antenna Systems](#).



**Internet of Things West** is an event covering advanced connectivity and cloud-based control of devices, equipment, facilities and enterprise operations. This conference is one of two annual "Internet of Things" trade shows hosted by Webcom Communications, with IoT West serving the western US, Canada and Mexico. It will be held **November 3-4, 2016 in Las Vegas, Nevada** co-located with other complementary events: Remote Monitoring and Control 2016 and the Antenna Systems Conference, DeviceWerx, Environmental Monitoring Technology 2016 and Micro Antennas Conference.

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

For more information, please visit: [Internet of Things West](http://www.IoT-West.com).



As a result of this year's heightened security situation at European airports, underlined by the attacks on the airports in Brussels and Istanbul, ACI EUROPE and ACI Asia-Pacific have decided to cancel Airport Exchange Istanbul and urgently transition the event into the "ACI Security & Crisis Management Special Summit" which will be held over two days in central Brussels, 22-23 November.

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

For more information, please visit: [ACI Security & Crisis Management Special Summit](http://www.ACISecuritySummit.com).

**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](http://www.WiMAXForum.org).**

## INDUSTRY SPOTLIGHT

### • EUROCONTROL Airport Surface Data Link (AeroMACS)

The Aeronautical Mobile Airport Communication System (AeroMACS) is the airport surface communications solution recommended by the International Civil Aviation Organisation (ICAO) for coping with increased volumes of data exchange at busy airport surfaces. AeroMACS is a modern telecommunication system based on the commercial 4G WiMAX (IEEE 802.16) standard. It is designed for and operating in the aeronautical C-band (5 GHz) for short-range and high data rate communications. The technology was selected in ICAO because of its appropriate frequency spectrum, high capability and suitable performance.

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

## 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 would like to extend a special welcome to **Shinsei Corporation**, the newest member for 2016.

**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!

## 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 October 20-21 in National Harbor on the margins of the 61<sup>st</sup> ATCA Annual Conference to focus on key projects: AeroMACS Certification, AeroMACS PKI, and the FCC Policy Petition. The AWG PKI Task Group is currently conducting a PKI trial demonstration as a proof of concept to confirm the AeroMACS PKI Certificate Profiles as a final

step to commercializing AeroMACS PKI. If your company is interested in participating in this trial, please reach out to Rich Hawkins at [Rich.Hawkins@WiMAXForum.org](mailto:Rich.Hawkins@WiMAXForum.org) . AWG members are collaborating with **ICAO** Working Group S and Working Group I so that security policies produced in the group will serve as guidelines to other groups in the industry that are planning AeroMACS deployments as well as serve as a PKI model for other Aviation technologies.

The AWG's Certification Task Group is close to completing the specification for Interoperability Tests (IOT) and made great progress on the development of the specification for Protocol Conformance Tests (PCT) to support AeroMACS Certification. Powertech Inc., the WiMAX Forum AeroMACS Designated Certification Laboratory, is now validating the setup and tests. AWG will begin lab validation and full AeroMACS certification in Q1 2017.

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. 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:

- **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.

### **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).

## **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:**

- **[AeroMACS 2016 – National Harbor Featured in the ATCA Digital Issue](#)**
- **[New ARINC Datalink, GNSS, Software Standards in Development](#)**
- **[Saab ASSC Improves Situational Awareness at San Francisco Airport](#)**
- **[Key Step Taken Toward Single European Sky ATC](#)**
- **[IATA, Harris Look to Battle ATM Inefficiencies with New Data-Sharing Tool](#)**
- **[Carrier Network Virtualization in Palo Alto in December](#)**
- **[Four hundred million euro to support SESAR deployment](#)**
- **[KrAZ-Spartan Self-Driving Armoured Vehicle, Ukraine](#)**
- **[Pakistan adds 1.6 mln broadband subscribers in September](#)**
- **[SESAR Deployment Manager appointed as Data Link Services \(DLS\) Implementation Project Manager](#)**
- **[Italy's Go Internet launches EUR 4 mln capital hike](#)**
- **[Alaska Airlines receives the FAA okay for its SMS program](#)**
- **[Notice and request for comments: Information Collection Requirement Being Submitted to the Office of Management and Budget for Emergency Review and Approval](#)**
- **[Spectrum support remains critical for industry's 5G plans](#)**
- **[Eurocontrol mandated to deploy European air / ground data communication service](#)**
- **[How IoT makes electricity generation more efficient](#)**
- **[Brussels Airport to host ACI World Congress in 2018](#)**
- **[Europe's Regionals Back on Track Ahead of ERA Assembly](#)**
- **[Smart Cities International Symposium and Exhibition 2017](#)**
- **[Disruptive Influences - Aimée Turner assesses industry opinion in the latest issue of Air Traffic Management](#)**

- **Small telecoms in Uganda say stop**
- **Industry Visionary: Q&A**
- **Attend AeroMACS 2016 – National Harbor at ATCA to Learn More about AeroMACS**
- **Europe, US Making Progress on Air to Ground Data Comm Harmonization**
- **Airport Surface Data Link (AeroMACS)**
- **RCS boosting capacity in South Sudan with O3b Networks**
- **Smart Home Summit on the First Week of November in Palo Alto**
- **How GE might help oil, gas industry amid slump**
- **IATA Calls for Industry Collaboration on Safety Management at October Conference**
- **Air Traffic Controllers And Pilots Can Now Communicate Electronically**
- **NextGen Quiz: The FAA has expressed a “strong desire” to position AeroMACS as an enterprise solution in coming years. What does AeroMACS do?**
- **AeroMACS Working Group AEEC Meeting**
- **Nepal telecom’s 15 million users are its biggest asset**
- **Receive 15% discount on registration for IoT Security on October 17-19, 2016**
- **NASA, China to Collaborate on Air Traffic Management Research**
- **UAE GCAA and SESAR Announce New Cooperation**
- **Investors welcome signals Siemens CEO will stay on**
- **Foundation promotes usage of modern teaching tools via FROG classroom**
- **September 2016 WiMAX Forum Monthly Newsletter**



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