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# WiMAX FORUM® NEWSLETTER

APRIL 2016

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## INTRODUCTION

Dear Respected Colleague,

The **WiMAX Forum** with the help of our participating member companies continues to attend and participate at very important and well-received **events** to move the WiMAX technology forward.

At the end of March, the WiMAX Forum hosted a free live webinar called "Expect Enormous Changes in Aviation Performance with Certified AeroMACS." WiMAX Forum President **Declan Byrne** and industry experts from **EUROCONTROL**, **Federal Aviation Administration (FAA)**, and **Hitachi** presented how AeroMACS has been identified as the technology of choice to provide wireless connectivity on the airport surface for the Aviation Industry and the major global deployments. To view the webinar recording, please click [here](#). The presentations can be downloaded [here](#).

On April 7, we participated at the **UTC America Latina 2016** that was held in Florianopolis, Brazil. WiMAX Forum President Declan Byrne presented "WiMAX for Smart Grid, Spectrum Regulations, and the Need of Licensed Spectrum." The discussions have continued after the event with the WiMAX Forum, UTC America Latina, the regulator Anatel, operators, vendors, and major utilities in Brazil forming a working group and discussing the availability of licensed spectrum designated to Smart Grids in Brazil. Currently, there are two resolutions that could possible secure necessary spectrum for the utilities and the so-called critical mission. At the next meeting with Anatel, the working group will present the possible use of these spectrum and the resolutions that could be adapted for the use of utilities.

On April 19, at **ICNS 2016** in Herndon, Virginia, WiMAX Forum President Declan Byrne and CTO **Dr. Nima PourNejatian** discussed "AeroMACS: How to Warrant Interoperability." Brian Crowe, Vice Chair of the WiMAX Forum **Aviation Working Group (AWG)** and PKI Subcommittee, and Sr. Advisory Engineer at Hitachi, presented on "Proposed AeroMACS PKI Specification is a Model for Global and National Aeronautical PKI Deployments." The AWG and WiMAX Forum member companies met Face-to-Face to continue the discussions after the conclusion of the conference.

This month the WiMAX Forum proudly announces another important milestone. The WiMAX Forum member company **Telrad Networks** has received Wave 1 AeroMACS Certification at **Powertech Labs Inc.**, the WiMAX Forum AeroMACS Designated Certification Lab in North America. As the first manufacturer to have AeroMACS equipment certified to Radio Conformance Testing (RCT), Telrad Networks has been a vital part of the validation process, which ensures more efficient testing for RCT. To read the complete press release, please click [here](#).

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.

We will continue the pace throughout the year. Please stay tuned for more details and look for information on **WiMAX**, **AeroMACS**, **WiGRID**, as well as other **upcoming events** to be announced

as of yet.

Many of your organizations have been contacted by our membership and finance teams. As always we stand ready to answer any questions that you have. Please don't hesitate to reach out to our Finance team lead, **Mr. Jack Daniels**, should you have any questions or comments.

If you have any questions regarding any of this or our organization's activities, please reach out to us.

We at the WiMAX Forum wish you a great rest of the month and we hope to see many of you soon!

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:



The 3rd annual **Internet of Things World** is the only independent business event dedicated to IoT. It assesses the key horizontal challenges affecting the range of vertical markets while also featuring dedicated tracks looking at industry-specific issues. It will take place on **May 10-12, 2016 at Santa Clara Convention Center, Silicon Valley, USA**.

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

For more information and event registration, please visit: [Internet of Things World 2016](#).



The **MVNOS Industry Summit** is the most important event on the topic of MVNOs in Latin America and is now in its 7th edition, returning once again to Mexico. This event will take place on **May 17-18, 2016 at Marquis Reforma Hotel & Spa in Mexico City**.

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

For more information and event registration, please visit: [MVNOS Industry Summit LATAM 2016](#).



**East AfricaCom** represents the most advanced region of the continent for mobile and digital communications, mobile money and ICT development. From and established 12 years supporting the market the East AfricaCom event will showcase the innovators and business leaders that are creating the next phase of the digital ecosystem. It will take place on **May 18-19, 2016 at Radisson Blu, Nairobi, Kenya**.

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

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



Against this backdrop of dramatic change, the **Big Communications Event** brings together the industry's top competitive operators with its most dynamic technologists to discuss and debate the

issues both driving and challenging the ultimate move to an NFV-enabled cloud running profitable applications and services over an underlying New IP network. BCE 2016 will take place on **May 24-25, 2016 at Austin Convention Center, Austin, TX.**

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

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



Watch the future take shape at Asia's representative event, **CommunicAsia2016**. As devices become increasingly connected, the Internet-of-Things is expected to expand exponentially with the number of internet-connected devices predicted to exceed 40 million by the year 2020. Revolutionary innovations will also abound as crowdfunding empowers the masses to turn their ideas into reality. It will take place on **May 31-June 3, 2016 at Marina Bay Sands, Singapore.**

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

For more information and event registration, please visit: [CommunicAsia2016](#).



Smart Home World brings together the entire ecosystem to discuss and debate the challenges and opportunities surrounding the provision of Smart Home technology and services. **Smart Home World** will take place on **June 21-22, 2016 at The Crystal, London, UK.**

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

For more information and event registration, please visit: [Smart Home World 2016](#).



**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**.

**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

- Expect Enormous Changes in Aviation Performance with Certified AeroMACS**  
*Webinar Recording & Presentations*



With the current airport surface communications system at its limit, the FAA and

EUROCONTROL/SESAR Joint Undertaking (SJU) have identified the Aeronautical Mobile Airport Communications System (**AeroMACS**) to support this ever-growing need for the safety and regularity of flight. With developments in security and certification in the **WiMAX Forum Aviation Working Group** and other aviation organizations such as **ICAO** and **RTCA**, certified AeroMACS equipment will soon be available and major deployments around the globe are already underway or in the planning phase.

The information that you gained from this webinar is a glimpse of what you'd be able to access as a WiMAX Forum member. By being part of the WiMAX Forum, Aviation Working Group (AWG) members are shaping the future of the technology. As a WiMAX Forum member, you can **influence** the development of AeroMACS through involvement in Working Groups, **network** with industry leaders at member-only events and forums to gain insights, **leverage** the WiMAX Forum's position as the worldwide authority of AeroMACS deployments, and **access** resources available only to member companies. To join the WiMAX Forum, please go to the following:  
[www.WiMAXForum.org/Page/Membership/how-to-join](http://www.WiMAXForum.org/Page/Membership/how-to-join).

In case you missed it or would like to forward it to your colleagues, you can find the webinar recording **here**. If you'd like the presentations from the webinar, you can download them **here**.

#### ● **Telrad Networks Equipment Receives Wave 1 AeroMACS Certification**

*A Significant Milestone for Aeronautical Mobile Airport Communications System (AeroMACS) Certification Has Been Achieved*

The **WiMAX Forum**® proudly announces that its member company **Telrad Networks** has received certification for Wave 1 **AeroMACS** at **Powertech Labs Inc.**, the WiMAX Forum AeroMACS Designated Certification Lab in North America.

As the first manufacturer to have AeroMACS equipment certified to Radio Conformance Testing (RCT), Telrad Networks has been a vital part of the validation process, which ensures more efficient testing for RCT. Wave 2 AeroMACS Certification is expected to begin later this year at Powertech Labs Inc. and will include Protocol Conformance Testing and Interoperability Testing to complete full WiMAX Forum AeroMACS Certification.

The WiMAX Forum AeroMACS Designated Certification Laboratory (ADCL) is still accepting products for Wave 1 AeroMACS Certification until Wave 2 is ready later this year. To read the complete press release, 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 the new members from 2015-2016:**

- **American Association of Airport Executives (AAAE)**
- **Alpha Tel S.A.**
- **Gemtek**
- **RCS Communication**

**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 in Herndon, VA on April 21-22. During the meeting, AWG members continued to advance our key projects: AeroMACS Certification, AeroMACS PKI, and the FCC Policy Petition. WiMAX Forum member company Telrad Networks has received Wave 1 AeroMACS Certification for Radio Conformance Testing (RCT), while being an essential part of the validation process. The WiMAX Forum AeroMACS Designated Certification Laboratory (ADCL) is still accepting products for Wave 1 AeroMACS Certification until Wave 2 is ready later this year. CTG members are now focusing on Interoperability Testing (IOT) and Protocol Conformance Testing (PCT) to support AeroMACS Certification Wave 2, and have finalized the approach to IOT and PCT. In other initiatives, the 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. 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).

## 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 February:**

- [Telrad Networks Equipment Receives Wave 1 AeroMACS Certification](#)
- [ICAO Calls for More Industry, Global Involvement](#)
- [RailTel Wi-Fi plan for rural J'khand](#)
- [Pakistan hits 30 mln broadband subs in March](#)
- [FAA, Eurocontrol Favor Involving Airspace Users in ATM Operations](#)
- [Korea's spectrum auction draws interest from all three operators](#)
- [Waseela completes five-year Samsung network project in Saudi Arabia](#)
- [Broadband sector in Pakistan becomes highly competitive: PTA](#)
- [Huawei to raise \\$2B in US bond offering](#)
- [Peru operators to install web speed testing tools by October](#)
- [Systems Architecture and Interfaces \(SAI\) Subcommittee Update](#)
- [Avionics for NextGen 2016](#)
- [FAA Forecast Sees Continued, Steady Growth in Air Travel, Cargo](#)
- [Spectrum Access R&D Program Industry Day](#)
- [Airtel buys Aircel's 4G spectrum for Rs 3,500 crore](#)
- [MVNOS Industry Summit LATAM 2016](#)
- [Waseela completes network management project for Samsung](#)
- [P1 officially rebranded as Webe](#)
- [Integrated Communications Navigation and Surveillance Conference](#)
- [Answers to your wireless smart grid networking questions](#)
- [World ATM Now Highlights Edition](#)
- [Indian telecoms urge uniform spectrum usage charge](#)
- [Wireless communication in Smart Grid deployments](#)
- [GE tests 100 Gbps Industrial Internet of Things network](#)
- [Google reiterates support for increasing 2.4 GHz band Wi-Fi by activating Channel 14](#)
- [India's operators push for further cuts in spectrum fees](#)
- [BSNL to launch 4G in 14 circles with BWA spectrum: report](#)
- [TNM Business Services Power 2016 Malawi Open](#)
- [Recording for the Expect Enormous Changes in Aviation Performance with Certified](#)

## AeroMACS Webinar

- **FAA Moves Its 'Analog' System to High-Tech with NextGen Program**
- **ICNS 2016 in Herndon, VA on April 19 With Multiple AeroMACS Presentations**
- **The Cost of Not Reforming Air Traffic Control**
- **Collector takes stock of airport expansion works**
- **Fast, Secure Wireless Terrestrial Broadband Solutions for Civil and Military Aviation**
- **FAA, NBAA Recognize Advances, Opportunities to Improve Safety**
- **Internet of Things World 2016**
- **March 2016 WiMAX Forum Monthly Newsletter**



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