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WiMAX FORUM® NEWSLETTER

MAY 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 April, the WiMAX Forum proudly announced another important **AeroMACS** 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 the following: **Telrad Networks Equipment Receives Wave 1 AeroMACS Certification**.

This month, engineers at **NASA**'s Glenn Research Center in Ohio successfully transmitted data to an **Federal Aviation Administration (FAA)** Bombardier Global 5000 testbed using Aeronautical Mobile Airport Communications System (AeroMACS). The FAA and **Hitachi** collaborated to conduct the demonstration, and AeroMACS provided near real-time updates for weather, airport status, and other flight information before takeoff. Today, pilots still rely on voice communication with Air Traffic Control (ATC) or their operations center for this type of information since traditional wireless technologies unlike AeroMACS are not secure or do not support high-data transmissions.

AeroMACS is changing airport operations worldwide. In addition to improving safety and security, this new wireless technology empowers airports to grow more affordably and adapt more easily to evolving needs after replacing old systems. Nowadays, airport communication systems use underground cables, which make growth, changes, and repairs difficult. When airports replace the infrastructure with wireless technology, especially AeroMACS, it will reduce maintenance costs, minimize downtime, and allow airports to advance their capabilities quickly.

As this year promises much AeroMACS momentum, we continue to host and participate in several industrial events with the expectation that these markets will increase in value as WiMAX's market share continues to expand. Through our events, speaking opportunities, and webinars, we are reaching out to diverse audiences in the WiMAX community.

We are raising awareness about WiMAX technologies and meeting with industry leaders worldwide 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.

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, please reach out to us.

We at the WiMAX Forum wish you a great June and 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:

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**.

Delivering affordable broadband access and enhancing data profitability in West Africa. Exploring Evolution and Innovation in West Africa's Communications Industry. **West Africa** will take place on **June 8-9, 2016 at Radisson Blu Hotel, Dakar**.

The WiMAX Forum is proud to be a supporting organization!

For more information and event registration, please visit: **West Africa 2016**.

CINTEL and INFORMA are pleased to announce the fourth edition of **Andean Telecom Forum** to be held on **June 14-15, 2016 in Bogotá, Colombia**. The event has been attended by leading organizations.

The WiMAX Forum is proud to be a supporting organization!

For more information and event registration, please visit: **Andean Telecom Forum 2016**.

The 2nd Annual **IoT Global Innovation Forum** will take place on **June 15-16, 2016 in Barcelona, Spain**. It will bring together leading technology innovators, business strategists and senior executives from around the world for two days of focused networking and information sharing at the IoT cutting edge.

The WiMAX Forum is proud to be a supporting organization!

For more information and event registration, please visit: **IoT Global Innovation Forum 2016**.

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**.

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

NASA, FAA Demonstrate Wireless Communication with Aircraft
Editor: Kelly Heidman

For the first time ever, a team of engineers at NASA's Glenn Research Center conveyed aviation data -- including route options and weather information -- to an airplane over a wireless communication system for aircraft on the ground.

The team used an Aircraft Access to System Wide Information Management (SWIM), or AAtS, prototype technical solution to convey the aviation information to an FAA Bombardier Global 5000 test aircraft taxiing 60 to 70 miles per hour on the Cleveland Hopkins International Airport runway. They sent the information over a new wireless communication system called Aeronautical Mobile Airport Communications System, or AeroMACS.

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**.

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) continues to advance key projects: AeroMACS Certification, AeroMACS PKI, and the FCC Policy Petition. Certification Task Group members are evaluating Interoperability Testing (IOT) and Protocol Conformance Testing (PCT) to support AeroMACS Certification Wave 2, 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 and met Face-to-Face with **ICAO** Working Group S and Working Group I in Montreal 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**. To find more information on our Working Groups, please visit: **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 May:

- **Continuing Momentum in the 3.5 GHz band**
- **CTIA wants to oversee spectrum sharing in the 3.5 GHz band**
- **House and Senate FAA Bills Take Diverging Flight Paths Toward Reauthorization**
- **Federal funds could boost Southern Tier Internet access**
- **CommunicAsia2016 in Singapore**
- **Seven Wireless Innovation Forum Members File in "First Wave" of FCC's Spectrum Access System Administrator and Environmental Sensing Capability Operator Request**
- **Nomad to Display New Trackside Solution at TrainComms**
- **China's mobile internet users account for 57% of population**
- **KDDI full year net income climbs 24.9%, operating revenue up 4.6%**
- **Hybrid smart metering solution**
- **FCC raises the curtain on the Citizens Broadband**
- **From Grandkids to Granddad: Over 20 Members Of The Yeoh Clan Work At YTL**

- **7 things utilities should know about private wireless networks**
- **Ofcom proposes sub-band within 5 GHz for Wi-Fi**
- **Claro Peru acquires WiMAX provider Olo**
- **IoT and big data pose "monumental" risk for operators**
- **NASA, FAA Demonstrate Wireless Communication with Aircraft**
- **The WiMAX Forum is Media Partner for IoT Global Innovation Forum in Barcelona. Enter "WIMAX" for 15% off on registration**
- **Puerto presents "Smart City" bid in Madrid**
- **FCC Affirms Citizens Broadband Radio Service in the 3.5 GHz band**
- **Korea auction attracts limited interest, 700MHz goes unsold**
- **NAVSUP Issues Solicitation for Potential $993M Wireless Telecommunications Services IDIQ**
- **CTIA not thrilled with how 3.5 GHz decision came out**
- **Interview: Huawei Chief Security Officer**
- **Telrad Networks Emerges as First Wave 1 AeroMACS Certified Solution**
- **FCC Puts Final Rules in Place for New Citizens Broadband Radio Service**
- **Senate appropriators pass FAA funding plan**
- **IoT Global Innovation Forum**
- **ZTE reveals strong Q1 numbers as US spat has limited impact**
- **FAA, Eurocontrol mull future role of CDM partners**
- **Incoming Delta CEO: 'We Chart Our Own Path Forward'**
- **EC moves forward with 700MHz plan**
- **Corporatized United States' air navigation proposal sees support grow**
- **April 2016 WiMAX Forum Monthly Newsletter**

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