WiMAX FORUM® NEWSLETTER

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IN THIS ISSUE

- **Introduction**

- **Events**

- **Industry Spotlight**

- **Membership Services**

- **Working Groups**

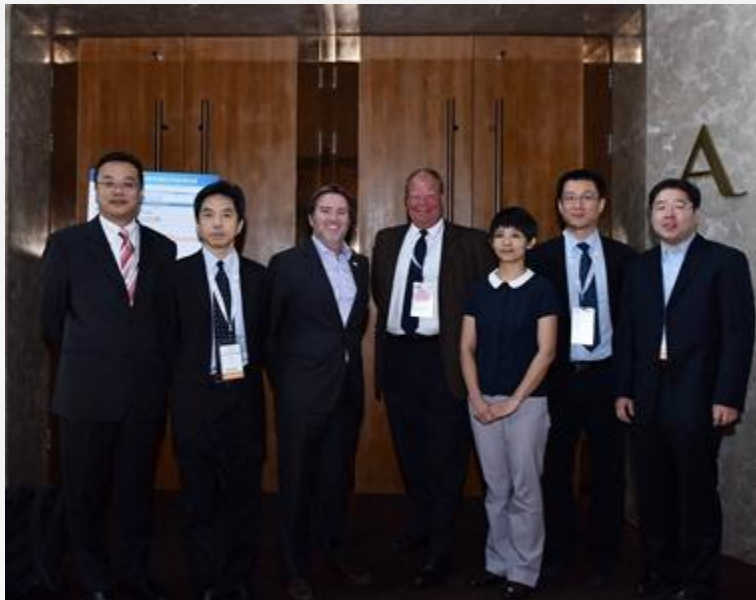- **WiMAX Forum News**

INTRODUCTION

Dear Respected Colleague,

The **WiMAX Forum leadership** continues to attend and participate at very important and well-received **events**.

At the end of last month, the WiMAX Forum hosted its first AeroMACS Event in Brazil. The AeroMACS Workshop was held at Comissão de Implantação do Sistema de Controle do Espaço Aéreo (CISCEA) and Departamento de Controle do Espaço Aéreo (DECEA) in partnership with Centro de Pesquisa e Desenvolvimento em Telecomunicações (CPqD) in Rio de Janeiro, Brazil. The aim of the conference was to increase awareness about AeroMACS as the cost-efficient, sustainable and easily scalable solution for aviation worldwide. In addition, the WiMAX Forum updated the attendees on its work promoting AeroMACS, international cases and development.

On September 7-11, the WiMAX Forum hosted an AeroMACS Multi-vendor Interoperability Demonstration Event at **Powertech Labs Inc.**, the **WiMAX Forum AeroMACS Designated Certification Laboratory** in North America. WiMAX Forum member companies **Gemtek**, **Hitachi**, **Selex**, **Siemens**, and **Telrad** convened to rigorously test their AeroMACS equipment for interoperability. This event highlighted the tremendous potential and interest in delivering broadband wireless services to the aeronautical industry using AeroMACS technology. Furthermore, this interoperability testing event established the capabilities of AeroMACS equipment and set the stage for full Certification for AeroMACS technology. Read more and hear from the participating vendors **here**.

At the **Wireless China Summit** in Beijing, the WiMAX Forum lead a successful AeroMACS Track, recognizing China's initiative and trial deployments of WiMAX technology on the airport surface.

The WiMAX Forum would like to thank the organizations that contributed with expert speakers to the program. Executives from the **Aviation Data Communication Corporation (ADCC)**, **Gemtek**, **Hitachi**, **Siemens**, and the WiMAX Forum spoke about the recent AeroMACS deployments in the Asia, Europe, US and particularly China. AeroMACS strategies, Network Reference Model, Interoperability, and Certification were among the hot topics discussed at the event.

Through our other events, we are reaching out to new diverse audiences in the Aviation community. We will continue to increase awareness of, educate, and meet with Aviation industry experts worldwide—Brazil, China, Europe, Japan and US—about implementing and developing AeroMACS networks in ways that will best serve all stakeholders: airlines, air traffic agencies, and airport authorities.

The WiMAX Forum is looking forward to another great Fall event season. Here is the summary of upcoming events that we are hosting and participating in the coming months:

• **Broadband World Forum 2015** meeting being held on 20-22 October, 2015 at the ExCeL, in London, UK. WiMAX Forum Chairman Dr. Mo Shakouri will speak on the "Interactive Debate: Where does Public and Free Wi-Fi fit into Operators Strategies?" on October 22, 2015 at 12:40-1:10pm.

• **AeroMACS 2015 - National Harbor** held at ATCA 60th Annual on Tuesday November 3, 2015 at 14:00 at the Gaylord National Resort and Convention Center, 201 Waterfront St, National Harbor. The Seminar will focus on supporting the global Aviation Community in managing profitable developments and growth of their AeroMACS networks.

• **TDD Africa 2015** held on Monday, November 16, 2015 at the DoubleTree Cape Town – Upper Eastside in Cape Town, South Africa. The Seminar will focus on supporting the African operator community in developing and managing profitable growth of TDD network deployments.

Look out for more information on **WiMAX Advanced**, **WiGRID**, **AeroMACS**, as well as other **upcoming events** to be announced as of yet. If you have any questions regarding any of this or our organization's activities, please reach out to us. We look forward to hearing from you, and continuing to work with you throughout the year.

Our 2016 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 regarding any of this or our organization's activities, please reach out to us. We at the WiMAX Forum wish you all a wonderful remainder of September, a prosperous October, and we hope to see you at one of our upcoming events.

Best Regards,

WiMAX Forum

EVENTS

In September, the WiMAX Forum continues to stay busy planning and attending events. We will continue in our efforts to bring you quality events directly hosted by the WiMAX Forum, we will also have a presence 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 **ACI-NA Annual Conference** brings together airport professionals and businesses that serve airports to attend outstanding education sessions and networking opportunities. In addition, there is an exhibition hall that showcases the latest and greatest products and services. The conference will take place on **October 4-7 at Long Beach Convention & Entertainment Center in Long Beach, California**.

The WiMAX Forum will be at ACI-NA Annual Conference 2015!

Come see WiMAX Forum President Declan Byrne discuss "Advanced Airside Communications and Surveillance Technologies" on October 4, 2015 at 9:00-10:15am in Room 101A.

For more information and event registration, please visit **ACI-NA Annual Conference 2015**.

IoT World Europe 2015 is the region's largest IoT event with over 500 attendees, 100+ industry thought leaders and 50+ exhibitors. It will take place on **October 6-7, 2015 in Maritim proArte, Berlin**. Internet of Things World Europe 2015 boasts the most comprehensive IoT agenda in the market.

The WiMAX Forum is proud to be a supporting organization and will be at IoT World Europe 2015!

For more information and event registration, please visit **IoT World Europe 2015**.

Broadband World Forum 2015, **20-22 October 2015, ExCeL, London, UK** is one of the world's largest telecoms, media & technology events with over 7,800 senior executives from across the globe converging on Amsterdam every year to identify the Next Big Thing.

With just under 8,000 attendees from fixed, mobile and cable operators, OTTs and other market disruptors, national and international governments and the world's leading solution providers, BBWF is an exciting place to meet the entire industry under one roof and identify the latest in network innovation, service optimization and customer monetization.

The WiMAX Forum is proud to be a supporting organization and will be at Broadband World Forum 2015!

Come see Dr. Mo Shakouri, WiMAX Forum Chairman, chair the "Interactive Debate: Where does Public and Free Wi-Fi fit into Operators Strategies?" on October 22, 2015 at 12:40-1:10pm.

For more information and event registration, please visit **Broadband World Forum 2015**.

AeroMACS 2015 - National Harbor will be held at **ATCA 60th Annual** on **Tuesday November 3, 2015 at 14:00 at Gaylord National Resort and Convention Center**, 201 Waterfront St, National Harbor, MD 20745 - Washington, DC area.

AeroMACS 2015 - National Harbor is a seminar for all participants to meet, exchange ideas, and develop business and cooperative relationships. The event will highlight the opportunities, challenges, and strategies involved in operating efficient AeroMACS networks. This seminar is constructed to allow the global Aviation Community to network, share key lessons, and collaborate for the benefit of the industry. Our goal is for attending participants to gain concrete knowledge that will help them build best-in-class AeroMACS networks.

In addition, come visit the WiMAX Forum stand during ATCA 60th Annual at **Booth 201** at Gaylord National Resort and Convention Center. We will be happy to tell you about us and AeroMACS solutions. For the Exhibit Hall floor plan, click **here**.

For more information and event registration, please visit **AeroMACS 2015 - National Harbor**.

Supported By:

Putting a spin on an ongoing series that began in 2011, the WiMAX Forum will host **TDD Africa 2015** with **GTI**'s endorsement, **PCCW Global** Platinum Sponsorship, and Gold Sponsorships from WiMAX Forum member companies **CelPlan Technologies** and **Telrad Networks**. **TDD Africa 2015** be held on Monday, November 16, 2015 at the **DoubleTree Cape Town – Upper Eastside** in Cape Town, South Africa.

This year's event will focus specifically on supporting the African operator community in developing and managing profitable growth of TDD network deployments. For TDD Operators who would like to have a private one-on-one meeting with the investment community on Monday and Tuesday, November 16-17, please contact Sophia Chang at **Sophia.Chang@WiMAXForum.org**.

For more information and event registration, please visit **TDD Africa 2015**.

AfricaCom 2015, the biggest and best tech event in Africa that gathers together senior decision-makers from the entire digital ecosystem…

If you are involved in the digital economy in Africa, then AfricaCom is the event for you. AfricaCom 2015 will take place **on November 17-19, 2015 in Cape Town, South Africa**.

The WiMAX Forum is proud to be a supporting organization and will be at AfricaCom!

For more information and event registration, please visit **AfricaCom 2015**.

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 2015. 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

• WiMAX Forum Hosts First AeroMACS Interoperability Demonstration Event
Global AeroMACS Vendors Showcase Equipment Interoperability and Performance

Global aviation leaders convened this month for the first Aeronautical Mobile Airport Communications System (**AeroMACS**) Multi-vendor Interoperability Demonstration Event hosted by the **WiMAX Forum** in Vancouver, BC. The AeroMACS event was held at the **WiMAX Forum AeroMACS Designated Laboratory, Powertech Labs Inc.**, from September 7 through September 11, 2015.

This Interoperability event enabled a number of AeroMACS equipment manufacturers to conduct rigorous hands-on interoperability testing of their leading-edge AeroMACS equipment. Each AeroMACS equipment supplier conducted a series of stringent and extensive interoperability tests with base stations and subscribes stations, in the International Telecommunication Union (ITU) assigned 5.091 to 5.150 GHz frequency band.

The WiMAX Forum has been organizing interoperability events since 2005, and this is the latest equipment testing in a sequence of highly successful interoperability events aimed at helping member companies prepare for AeroMACS Certified equipment testing. Participating WiMAX Forum member companies include **Gemtek**, **Hitachi**, **Selex**, **Siemens**, and **Telrad**.

For additional information, please click **here**.

• Siemens paves the way for secure high-speed wireless networks in airports
Siemens Ruggedcom WIN devices permit wireless communication in line with the AeroMACS standard

Siemens is paving the way for the airport wireless networks of the future: with its Ruggedcom WIN devices, Siemens is one of the first suppliers to offer network components for secure broadband communication in line with the new AeroMACS (Aeronautical Mobile Airport Communications System) wireless communications standard. Once the current test phase is complete, this is due to be adopted as the only internationally valid standard for airport ground communications.

The aim is to increase the speed, availability and quality of communication used in applications such as airport ground traffic control in a bid to keep pace with the ever growing volume of data. The Ruggedcom WIN portfolio of rugged WiMAX products allows users easy installation and operation in ground vehicles, control stations, weather stations and at security gates. Typical applications include the exchange of flight and meteorological data on takeoff and landing, or the transfer of security surveillance videos.

For additional information, 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:

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

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) and its task groups continue to make great progress on our key projects: AeroMACS Certification, AeroMACS PKI, and FCC Service Policy Petition. The Certification Task Group (CTG) had a successful **Multivendor Interoperability Demonstration Event (MIDE)** on September 7-11 at **Powertech Labs** our accredited AeroMACS Designated Certification Lab (ADCL). Five AeroMACS vendors brought base station and subscriber station equipment for

testing and confirmed interoperability of AeroMACS equipment based on test scenarios developed by the group. This was an important first step to Certification for AeroMACS.

The CTG is now focusing on Radio Conformance Tests procedures for AeroMACS Certification Wave 1 set to start in late Fall 2015 at Powertech Labs. AeroMACS Certification Wave 2 will be available in 2016. The PKI task group has a set of draft Certificate Profiles under consideration with the Policy document being developed as a next step. The group is working in collaboration with **ICAO** Working Group S, so that these can serve as a guideline to the groups in the industry that are developing related requirements. After initial testing of X.509 certificate applications for AeroMACS, **Symantec** will be offering a Proof Of Concept for our members deploying AeroMACS Trial Networks. 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.

Regarding the 3.5 GHz band, the Smart Energy Working Group (SEWG) members are planning their response to the FCC's second FNPRM, and members continue to contribute to the Wireless Innovation Forum (WInnForum) Spectrum Access System (SAS) committee to influence the rules that regulate the 3.5 GHz band. Collaborating with utilities, the WiMAX Forum continues to investigate other smart grid spectrum alternatives such as the 700MHz band with 1MHz channels and pursue the interests of the Smart Grid industry. For narrowband applications, the SEWG members are working with IEEE to bring to market devices for this and other sub 1GHz spectrum.

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*

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 area in Kavi 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/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 September:

- **AeroMACS is Promising in China and Worldwide**
- **Fixed broadband subs in non-EU, C. Asia pass 53 mln**
- **NASCTN launches first spectrum-sharing project with Federated Wireless**
- **Freshtel expands network to Kalinovka**
- **EUROCAE Call for interest**
- **TTK expands network in Perm, Yekaterinburg**
- **Internet of Things West 2015**
- **European fixed broadband connections up 4% to 160 mln in Q2**
- **3.5 GHz spectrum rules create opportunities for equipment makers and service providers**
- **Siemens launches AeroMACS compatible devices for wireless networks in airports**
- **WiMAX Forum Hosts First AeroMACS Interoperability Demonstration Event**
- **EUROCONTROL Civil-Military CNS/ATM Interoperability Roadmap**
- **NextGen to Stay On Track For Now**
- **Broadband World Forum 2015**
- **NBAA's Bolen Talks FAA Reauthorization, NextGen with Kentucky Aviators**
- **Siemens paves the way for secure high-speed wireless networks in airports**
- **Wi-tribe aims to develop a robust broadband eco-system in Pakistan**
- **National Harbor Best Events: AeroMACS 2015 – National Harbor**
- **Telcos welcome spectrum discussion**
- **Avionics Mandates - An update on Data Comm**
- **IoT Security 2015**
- **Xplornet to buy Wimax operator Platinum**
- **Should the U.S. Privatize Air Traffic Control?**
- **Iran to develop 27 airports, add new terminals**

- **AeroMACS Multi Vendor Interoperability Demonstration Event**
- **Improved Interoperability Proves Important for NextGen Efforts**
- **Giraffe expands WiMAX network in Khmelnitskiy**
- **Tower & Small Cell Summit 2015**
- **Iran reveals statistics on electronic devices owned by families in country**
- **Google applies for experimental 3.5 GHz license in Kansas City**
- **ACI-NA Annual Conference 2015**
- **Albania makes 2G, 3G spectrum technology-neutral**
- **AeroMACS Track this September at the Wireless China Industry Summit 2015**
- **Irancell Granted TD-LTE Licence**
- **Fixed broadband on the rise in Africa**
- **Pakistan passes 18 mln broadband connections milestone**
- **AEEC Mid-Term Session AeroMACS Working Group**
- **Towerstream (TWER) – Research Analysts' Weekly Ratings Updates**
- **Bid Opportunities - Aeronautical Mobile Airport Communications System**
- **Metroplex: Improving Traffic Flow in Complex Airspace**
- **Georgia's Largest Municipal Utility, Marietta Power and Water, Selects Tantalus for Integrated Electric and Water Smart Grid Solution**
- **Improved Risk Analysis Could Strengthen FAA's Global Interoperability Efforts**
- **August 2015 WiMAX Forum Monthly Newsletter**

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