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WiMAX FORUM® NEWSLETTER

JUNE 2015

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INTRODUCTION

Dear Respected Colleague,

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

This month, **AeroMACS** was the focus throughout the world. WiMAX Forum President Declan Byrne discussed AeroMACS on the "High-Tech and High Performance: Best Practices In Ramp and Apron Operations" panel at the **87th Annual AAAE Conference** in Philadelphia, Pennsylvania. Declan also presented at the **Systems Architecture and Interfaces (SAI) Subcommittee** meeting at the Lufthansa Airport Conference Center - Frankfurt Airport Center in Frankfurt, Germany.

Additionally, WiMAX Forum COO **Richard Hawkins** attended the **International Civil Aviation Organization (ICAO)** Working Groups S meeting at the ICAO Headquarters in Montreal, Canada. AeroMACS and other Aeronautical Communications issues were discussed at the meeting.

At **CommunicAsia2015** in Singapore, WiMAX Forum Chairman Dr. Mo Shakouri presented on the "Developments in WiMAX: Where is WiMAX Now Being Deployed and What are its Future Prospects?" (Maximizing your Revenue via DSL, Fiber, and Wireless).

Another major initiative this month was the WiMAX Forum **Opening Up of 3.65 GHz Band Webinar**. The significant operational change for the 3.65 GHz wireless broadband community, critical infrastructure players, and specifically global WiMAX deployments, which demand solid guidelines, policies, and industry support to have adequate protection. The **Smart Energy Working Group (SEWG)** members are planning their response to the second FNPRM, and members continue to participate in the Wireless Innovation Forum (WInnForum) Spectrum Access System (SAS) committee to influence the rules that regulate the 3.5 GHz band.

Next month, the WiMAX Forum will continue to push forward hosting and participating in a number of industrial events with the expectation that these markets will continue to increase in value as WiMAX's market share further expands. Here is the summary of upcoming events that we are hosting and participating in the coming months:

• **Wireless China Summit 2015** meeting being held on September 16-17, 2015 at the Crowne Plaza Beijing Sun Palace in Beijing, China. Explore how AeroMACS is able to shape the future of airport operations. The WiMAX Forum will lead panels, presentations and discussions during the AeroMACS Track on September 16, 2015 from 1:45pm to 6:00pm.

• **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?" Details are still being finalized, and will be made available shortly.

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 to continuing to work with you throughout the year.

We at the WiMAX Forum wish you all a wonderful remainder of June, and a prosperous July.

Best Regards,

WiMAX Forum

EVENTS

In June, 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 20th annual **Middle East Com conference** will take place **on the 14-15 September this year at the Habtoor Grand in Dubai**. With competition intensifying and margins being squeezed, the 2015 conference will identify new avenues for operators to generate revenues. Positioning themselves at the heart of the digital value chain, operators will learn from entrepreneurs and innovators finding success in the digital space.

The WiMAX Forum is proud to be a sponsoring organization. For more information and event registration, please visit **Middle East Com conference**.

The upcoming Wireless China Industry Summit will take place on **September 16-17, 2015 at the Crowne Plaza Beijing Sun Palace in Beijing, P.R.C.** This educational program provides insights about a broad range of critical issues and exciting new developments. At the Wireless China Industry Summit, you and your organization will have a firsthand opportunity to learn more about the latest wireless technologies and their applications in high growth market segments.

The WiMAX Forum will host - AeroMACS Track - at the Wireless China Industry Summit!

Next generation wireless communications is paving the way for airport and aircraft operations to become more efficient, safe and profitable. The second AeroMACS Seminar at Wireless China Summit focuses on a new wave of solutions, services and avionics that offers connectivity for applications at the airport surface. Explore how AeroMACS is able to shape the future of airport operations. The WiMAX Forum will lead panels, presentations and discussions during the **AeroMACS Track on September 16, 2015 from 1:45pm to 6:00pm**.

Increase your presence at the Wireless China Summit and the AeroMACS Track with a sponsorship! This high-profile event offers sponsors a speaking opportunity, exhibition space, and excellent visibility before, during, and after the event. For more information about the sponsorship that best suit your needs, please contact Alessandra Rocha at **Alessandra.Rocha@WiMAXForum.org**.

Sponsored by:

Supported by:
Office of Radio Regulatory Committee, Civil Aviation Administration of China (CAAC)

Approved and Endorsed by:
Radio Regulatory Bureau, Ministry of Industry & Information Technology (MIIT)

For more information and event registration, please visit **AeroMACS Track at Wireless China Summit 2015**.

Internet of Things Security 2015 is the first event of its kind to focus on the security issues surrounding IoT and managing the information and data associated with the ever increasing amount of connected devices and appliances. It will take place **on September 22-23, 2015 in Boston Renaissance Waterfront, Boston**. Attracting decision makers, stakeholders and investors together under roof, Internet of Things Security boasts a C-Level executive speaker line-up with interactive round table sessions, case studies and networking breaks designed to instigate discussion and enabling business opportunities.

The WiMAX Forum is proud to be a sponsoring organization. For more information and event registration, please visit **Internet of Things Security 2015**.

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**.

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**.

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.

The WiMAX Forum would like to extend a special welcome to the new members from 2014-2015:

- **Alpha Tel S.A.**
- **Civil Aviation Safety Authority of Australia**
- **DFS Deutsche Flugsicherung GmbH**
- **Ecil Energia**

- **Embry Riddle Aeronautical University**
- **Exelis**
- **Great River Energy**
- **Green Packet Berhad**
- **Hawaiian Electric**
- **Iberdrola USA**
- **Intellecom LLC**
- **Kyocera Communication Systems Co.**
- **Magnaquest Technologies Ltd**
- **Metropolitan Washington Airport Authority**
- **MITRE Corporation**
- **Seowon Intech**

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!

If you have questions regarding the WiMAX Forum Membership, please send a message to **Membership@wimaxforum.org**.

INDUSTRY SPOTLIGHT

• Opening Up of the 3.65 GHz Band
Webinar Recording

A new global trend for the 3.65 GHz band is emerging due to the recent U.S. Federal Communications Commission's Report and Order opening up 150 MHz for shared access in the 3550-3700 MHz band to wireless broadband service providers, industrial users, and other federal/non-federal users. This is a significant operational change for the 3.65 GHz wireless broadband community, critical infrastructure players, and specifically global WiMAX deployments, which demand solid guidelines, policies, and industry support to have adequate protection.

In this **Webinar Recording**, you will learn about the details regarding the U.S. Federal Communications Commission ("FCC") release of a Report and Order ("Report and Order") creating a new Citizens Broadband Radio Service ("CBRS") that will permit commercial use of 150 MHz of spectrum in the 3550-3700 MHz band ("3.5 GHz Band"). It contains the band 3650-3700 MHz which includes the 3.65 GHz Wireless Broadband Service ("WBS").

For this and other videos, please click **here**.

• **The Connectivity Play in Future US NextGen Strategy**
By Juliet Van Wagenen, Editor, Aviation Today

The FAA's NextGen air traffic modernization initiatives hinge on Internet connectivity and some companies are beginning to look ahead to what connectivity can offer the National Airspace System as System Wide Information Management (SWIM) and take communications, operational efficiency and decision-making to the next level.

Aeronautical Mobile Airport Communications System (AeroMACS), which is taking steps forward to provide a wireless, broadband network to services on the airport's surface. AeroMACS is being positioned as the first NextGen Data Comm system that will enable Aircraft Access to SWIM (AATS), weather in the cockpit, and a whole host of other Airport Terminal Services (ATS) and Airline Operational Control (AOC) applications, once the network is implemented and avionics are developed, which shouldn't be too far into the future.

To read the entire article, please click **here**.

• **UQ Surpasses 10 Million WiMAX Contracts**
WiMAX Forum® Member Aims to be the #1 Mobile Internet Service Provider in Customer Satisfaction

UQ Communications Inc. (hereafter "UQ") exceeded 10 million contracts for UQ WiMAX™ mobile internet service. Since its founding in 2009, UQ has strived to make customer satisfaction a top priority. Responding to customer feedback, UQ has enlarged the area of mobile internet coverage in Japan, boosted the download bandwidth speed of the WiMAX 2+ service to 220 Mbps with the "Ya-Baisoku" (double speed) service, introduced flat rates with the "Giga-Hodai" (unlimited data) wireless plan, and began selling slim, lightweight high-speed Wi-Fi routers.

Said WiMAX Forum President, Declan Byrne, "We are proud of this Forum member's stellar achievements. UQ gained a large number of contracts due to its dedication to customer satisfaction and tenacity in responding to customers' needs. Last year, we named UQ WiMAX Advanced Champion of the year and are ecstatic that it is continuing its excellence."

For additional information and o read the article, please click here.

WORKING GROUPS

The **WiMAX Forum Working Groups** focus on three key initiatives: **AeroMACS**, **Smart Energy** and **WiMAX Advanced**.

The Aviation Working Group (AWG) and its task groups are making great strides on four key projects: AeroMACS Certification, AeroMACS PKI, Network Reference Model and FCC Service Policy Petition. The Certification Task Group is finalizing IOT Use Case Scenarios for a Multivendor Interoperability Demonstration Event (MIDE) to be held on September 7-11 at **Powertech Labs** and beginning to develop Radio Conformance Tests for AeroMACS Certification Wave 1 to be available in late Fall 2015 at Powertech Labs, our accredited AeroMACS Designated Certification Lab (ADCL). AeroMACS Certification Wave 2 will be available in 2016. The PKI task group is developing a draft Certificate Profile and Policy document that can serve as a guideline to the groups in the industry that are developing related requirements. After initial testing of X.509 certificate applications based on the Current WiMAX PKI Program, **Symantec** will be offering a Proof Of Concept for our members deploying AeroMACS Trial Networks. Additionally, the PKI Task Group is presenting their PKI Certificate Policy Considerations as a working paper to **ICAO** Working Group S.

Network Reference Model Task Group members are addressing questions raised at the ICNS conference in response to a recently published technical white paper entitled, "AeroMACS: Delivering Next Generation Communications to the Airport Surface," which you can read **here**. Based on the AeroMACS Network Reference Model work, the results will be used as the basis to begin FCC Petition development in 2015. AWG members are responding to the FCC NPRM for WRC-12 Resolutions and defending the spectrum at future ITU meetings, including WRC-15 and WRC-16.

After receiving and analyzing the FCC's adoption of its Report and Order for its initial **FCC FNPRM** regarding the 3.5 GHz band, the WiMAX Forum hosted a webinar on June 3rd with over 80 participants to shed light on what this means to Utilities deployed in the band as well as future deployments. Q&A will be available to members in the near future. The Smart Energy Working Group (SEWG) members are planning their response to the second FNPRM, and members continue to participate in the Wireless Innovation Forum (WInnForum) Spectrum Access System (SAS) committee to influence the rules that regulate the 3.5 GHz band. Collaborating with API, Ameren, CenterPoint Energy Houston Electric, Exelon, and UTC, 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 WiMAX Forum has surveyed utilities to further analyze the addressable market 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 June:

- **The WiMAX Forum Special Program for the 3.5 GHz Society in the United States of America**
- **Creating a market to improve ATM performance and competitiveness**
- **UAS Integration in the NAS and NextGen**
- **Plan to link Wayanad schools with Net**

- **House transportation chairman: Privatize air-traffic control**
- **Thailand's CAT Telecom Selects Elitecore's BSS Platform to Enable MVNE Strategy**
- **FEMA, prodded by Oregon senator, creates volunteer Tech Corps to help in emergencies**
- **TTK expands WiMAX network in Chelyabinsk**
- **Towerstream Stock Rating Upgraded by Zacks (TWER)**
- **Opening Up of the 3 65 GHz Band Webinar Recording**
- **Xoupir: Charles Bombardier's 'magic bus'**
- **U.S. transportation chief says nation's airports need major upgrades**
- **Air travel demand projected to double in 20 years**
- **Secretary Foxx's speech to IATA establishes him as an Advocate for NextGen!!!**
- **Subcommittee Discusses NASA's and FAA's Work to Foster Technologically Advanced, Environmentally Responsible, and Safe Air Travel**
- **RTCA 2015: Global Harmonization Through Industry Collaboration**
- **Cavium, Inc. (CAVM) Files Form 4 Insider Selling**
- **Matrix to showcase cutting-edge telecom and security solutions at Convergence India Expo**
- **''Don't tax the internet'', Punjab government told**
- **Honeywell Signs Joint Research Agreement with Aviation Data Communication Corporation**
- **UQ Surpasses 10 Million WiMAX Contracts**
- **NextGen Data Comm Responds Exceptionally to FAA Trials**
- **Join Light Reading & WiMAX Forum as a VIP Guest at Light Reading's Big Telecom Event (BTE)**
- **AeroMACS Track at Wireless China Summit 2015**
- **System Wide Information Management (SWIM) Users Forum Online Webinar Next Week**
- **Liberty Telecoms to lease out telecom assets, paper says**
- **Enforta starts services for Ministry of Internal Affairs**
- **Don't Miss the Opening Up of the 3.65 GHz Band Webinar Tomorrow**
- **The Connectivity Play in Future US NextGen Strategy. AeroMACS to enable communication on airport surface an Article on Avionics Magazine**
- **Total Number of UQ WiMAX Contracts Exceeds 10 Million!**
- **Texting from tower to cockpit could speed flights**
- **Evolving Systems wins order expansion with African operator**
- **Big Telecom Event on June 9-10 in Chicago, IL with Participation from the WiMAX Forum**

- **ATH completes acquisition of Kiribati's TSKL**
- **Liquid Telecom Expands in Zambia with Realtime ISP Buy**
- **The FCC's Citizens Broadband Radio Service is on the Horizon!**
- **May 2015 WiMAX Forum Monthly Newsletter**

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