WiMAX FORUM® NEWSLETTER

DECEMBER 2015

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INTRODUCTION

Dear Respected Colleague - As 2015 comes to a close, we want to take a moment to express our sincere gratitude and thanks for your unflagging support and enthusiasm. Your insights, wisdom and unceasing support allow us to represent the technology – taking WiMAX forward into new and exciting directions. Thanks specially to the generosity, commitment and contributions of our **membership**, we were able to continue the expansion of our services, achieving significant milestones together through collaboration.

This year, the **WiMAX Forum** has widely advocated the capabilities of the wireless broadband technology for the airport surface called Aeronautical Mobile Airport Communication System (**AeroMACS**). The results of these efforts demonstrate the immense potential and benefits in using AeroMACS to a variety of audiences that include aircraft maintenance, airlines, airport, ATC/ATM, government representatives, and more. It has been an active year of hosting AeroMACS seminars, presenting at aviation-focused events, hosting the AeroMACS Multi-vendor Interoperability Demonstration Event (MIDE), publishing white papers, and preparing a number of studies to accomplish this. For more details about the 2015 AeroMACS activities please click **here**.

Globally, the **WiMAX Forum Staff**, **Board of Directors**, **Working Group Representatives**, and **Members** have hosted, attended, and participated with speakers in a number of key industry events. We are seeing concrete results from our activities in the industrial markets particularly through several **AeroMACS** and **Smart Energy** events, which provided excellent exposure, reception, and engagement. Our involvement in these events has proven to be the right strategy, fostering a prosperous environment and future for the WiMAX ecosystem. Our focus has been to share key lessons, concrete knowledge, and work together for the benefit of the WiMAX industry.

This coming year promises further momentum. We 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 continues to expand. The WiMAX Forum is excited about another great event season. Look out for more information on **AeroMACS**, **WiGRID**, **WiMAX Advanced**, as well as other **upcoming events** to be announced as of yet.

We have sent our 2016 renewal correspondence to the Membership, and many of your organizations have been contacted by our membership and finance teams. As always we stand ready to answer any questions that you may have. 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 look forward to hearing from you and continuing to work with you. We wish you a healthy and happy holiday season, and we look forward to speaking with you soon in 2016.

Best Regards,

WiMAX Forum

EVENTS

In December, the WiMAX Forum continues 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:

Serving the industry for 23 years, the Exhibitions India Group is proud to play an integral role in the changing landscape of the Indian Information and Communication environment. The milestone 24th Edition of Convergence India 2016 expo is themed as "Digital India." **24th Convergence India 2016** will take place on **January 20-22, 2016 at Hall 18, Pragati Maidan, New Delhi**.

The forthcoming expo is the ideal platform to deliberate and engage with international business gurus, telecom and broadcasting czars, leaders from IT & Internet, electronics, media, entertainment, communications, broadcast, cable & satellite, fiber, cloud, VAS, etc. verticals from India and beyond. National and international TV crews and cameras will beam debates and discussions across the globe and on social media. 24th Convergence India 2016 will provide an ambience and opportunity towards a greater understanding and connect to the marketplace.

The WiMAX Forum is proud to be a supporting organization!

For more information and event registration, please visit **24th Convergence India 2016**.

The primary value in an IoT system is its ability to perform analytics on the acquired data and extract useful insights however building a pipeline for performing scalable analytics with the volume and velocity of data associated with IoT is no simple task. The **IoT Data Analytics & Visualization Summit** is the first dedicated event to tackle and showcase the ways in which companies can evolve their strategy and focus from just connecting things to capturing insights in order to achieve true value from IoT. It will take place on February 9-11, 2016 at Crowne Plaza Palo Alto, USA.

The WiMAX Forum is proud to be a supporting organization!

For more information and registration, please visit: **IoT Data Analytics & Visualization 2016**.

Industry of Things World USA is a new international knowledge exchange platform bringing together all stakeholders playing an active role in the industrial Internet of Things scene. Over 2.5 days, you will get inspirational keynotes and well moderated, interactive world cafe sessions, workshops, briefings, panel discussions, and network activities.

Join the conversations at the Industry of Things World USA in February to accelerate market adoption and gain a deeper business and technical understanding of the Industrial Internet landscape. It will take place on **February 25-26, 2016 at the Hard Rock Hotel in San Diego, CA, USA**.

The WiMAX Forum is proud to be a supporting organization and will be at Industry of Things World USA 2016!

Come see **Declan Byrne**, WiMAX Forum President, discuss "Aviation Internet of Things" at World Café Roundtable 1 (Group A) on Friday, February 26 at 11:00AM.

For more information and event registration, please visit **Industry of Things World USA 2016**.

Internet of Things North America 2016 is an innovative event covering advanced connectivity and cloud based monitoring/control of devices, facilities, automobiles, people, and enterprise operations. Already in its third year, the 2016 event will once again be held in **Chicagoland area on April 13-14, 2016.**

This event provides a forum to discuss new developments in technology, market conditions and end-user requirements that are driving innovation, capabilities and features, application trends and performance improvements in the machine, device and building intelligence, connectivity/telemetry and IoT industry.

The WiMAX Forum is proud to be a supporting organization!

For more information and event registration, please visit **Internet of Things North America 2016**.

With a focus on monetizing the IoT revolution through bringing together ecosystem wide attendees, stakeholders and investors, Internet of Things World is a unique opportunity to promote your IoT message right in the heartland of IoT development. 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 registration, please visit: **IoT World 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 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**.

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 have had a great year of progress on our key projects: AeroMACS Certification, AeroMACS PKI, and the FCC Policy Petition. The Certification Task Group (CTG) is finalizing the Radio Conformance Tests procedures to support AeroMACS Certification Wave One to take place in Q1 of 2016. The PKI task group is developing a Certificate Policy document, having finalized draft Certificate Profiles. The group submitted a working paper based on the Certificate Profiles and Certificate Policy to **ICAO** Working Group S, which was received well and paves the way for a globally standardized PKI solution. AWG is continuing its collaboration with ICAO so that policies produced in the group can serve as guidelines to other groups in the industry that are planning AeroMACS deployments. 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 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. A Public Notice has been released by the FCC's Wireless Telecommunications Bureau soliciting comments 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 along with its members are examining whether these protections are adequate for incumbent systems and are preparing to file comments with the FCC.

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 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 December:

- **Q&A: Declan Byrne Discusses the Basics of WiMAX**
- **FCC Makes 150 Megahertz of Spectrum Available for Mobile Broadband**
- **Update: More Citizens Broadband Radio Rules Set to Take Effect**
- **The WiMAX Forum Special Program for the 3.5 GHz Society in the United States of America**
- **"Speed Wi-Fi NEXT WX01" – The world's first Wi-Fi router that supports 4x4 MIMO Mobile Wi-Fi Router with a Maximum Download Speed of 220Mbps**
- **WiMAX Forum to Showcase AeroMACS Interoperable Equipment at ATCA Conference**

- **America's Air Traffic Control System is Finally Going Digital**
- **FCC raises the curtain on the Citizens Broadband Radio Service**
- **Information Collection Being Reviewed by the Federal Communications Commission: A notice by the FCC on 6/30/2015**
- **Sequans Communications S.A. (NYSE:SQNS) a Top Growth Pick**
- **Antenna Tackles Wi-Fi and WiMAX**
- **Join WiMAX Forum President Declan Byrne moderating a World Café on Industry of Things World in San Diego**
- **5 Things You Need to Know about Air Traffic Control Reform**
- **Study on progress of air traffic control upgrades elicits debate**
- **Spain delays 2.6 GHz spectrum auction until January**
- **DistribuTECH 2016**
- **Rockwell Collins Implements Air-to-Ground Aviation Communications in South Korea**
- **Omnibus Bill Includes Tax Break Extensions, FAA Funding**
- **15% of World's Broadband Deemed '4K-Ready'**
- **3.5 GHz Band Incumbent Protection Zone**
- **Airport delays worsened by financial uncertainty, report says**
- **WTB Extends Comments for 3650-3700 MHz Band Protection Contours PN - Interested parties will now have until December 28, 2015 to file comments**
- **Electronics technology to bring speed, comfort and reliability**
- **Broadband subscribers including 3G, 4G cross 23.6mn mark**
- **Brazil's multi-band auction attracts 9 applicants**
- **Reminder: ICNS Call for Participation 2016**
- **East China Air Traffic Control and Aviation two discuss cooperation**
- **IoT Data Analytics & Visualization 2016**
- **KDDI And Kyocera Launches 'Digno Rafre,' Deemed As World's First 'Soap-Proof' Phone**
- **TNM launches WiMAX following Burco acquisition**
- **Pakistan broadband user base jumps to 23 mln in October**
- **IEEE Globecom 2015**
- **Airline executives urge privatization of air-traffic control**
- **Company Shares of Sequans Communications S.A. (NYSE:SQNS) Rally 2.35%**
- **uMAX launches new service plans offering MORE data, MORE speed and MORE value**
- **Telenor wins biggest in Norway's 1800MHz auction**
- **Could Yahoo sell its Internet biz to Verizon or AT&T?**
- **24th Convergence India 2016**
- **Update: More Citizens Broadband Radio Rules Set to Take Effect**
- **Interconnection fabric with protocol agnostic switch for flexible radio avionics**
- **Millions of embedded devices use the same hard-coded SSH/TLS private keys**
- **Etice receives visit from the Federal Institute of Maranhão**

- **TNM brings high speed internet with Smart eWiMAX to Malawi**
- **DistribuTECH 2016**
- **ATCA Today Highlights Issue**
- **November 2015 WiMAX Forum Monthly Newsletter**

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