WiMAX FORUM® NEWSLETTER

MARCH 2016

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INTRODUCTION

Dear Respected Colleague,

The **WiMAX Forum** with the help of our participating member companies is producing important work and speaking at industry-related events to move WiMAX technology forward.

At the end of February, the WiMAX Forum CTO **Dr. Nima PourNejatian** discussed "Aviation Internet of Things" and other topics at the **Industry of Things World USA 2016** World Café Roundtable. The event highlighted the tremendous potential and interest in delivering broadband wireless services to the aeronautical industry using AeroMACS technology.

On March 22, we participated in the **Dynamic Spectrum Sharing Summit 2016** held at **IWCE**. WiMAX Forum President **Declan Byrne** and other panelists addressed "Spectrum Sharing and Dynamic Access: Where We Are, What We've Learned". The event was well attended and participants were updated on the FCC activity in regards of the CBRS rules that regulate the 3.5 GHz band and other spectrum related issues.

On March 30, the WiMAX Forum hosted its second AeroMACS webinar called **"Expect Enormous Changes in Aviation Performance with AeroMACS Certified"**. The WiMAX Forum President **Declan Byrne** and industry experts from **EUROCONTROL**, **Federal Aviation Administration (FAA)**, and **Hitachi** presented how AeroMACS has been chosen as the technology of choice to provide wireless connectivity on the airport surface for the Aviation Industry and the major global deployments. The webinar was successful with over 150 registrants from more than 80 companies in over 30 countries. Webinar Recording & Presentations will be available for download on **Monday, April 4.** Please check our website for more details.

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.

Next month, the WiMAX Forum will host and participate in a number of industrial events, expecting that these markets will increase in value as WiMAX's market share continues to expand. Here is the summary of upcoming events that we are hosting and participating in the coming months:

• **UTC America Latina 2016** will be held on April 6-8, 2016 at Hotel Majestic Palace in Florianopolis, Brazil. WiMAX Forum President **Declan Byrne** will discuss "WiMAX for Smart Grid, spectrum regulations, and the need of licensed spectrum" on Thursday, April 7 at 4:30PM.

• **ICNS 2016** will take place on April 19-21, 2016 at the Westin Washington Dulles Airport, Herndon, Virginia, USA. WiMAX Forum President **Declan Byrne** and CTO **Dr. Nima PourNejatian** will discuss "AeroMACS: How to Warrant Interoperability" on Tuesday, April 19 at 1:30PM. Brian Crowe, Vice Chair of the WiMAX Forum **Aviation Working Group (AWG)** and PKI Subcommittee, and Sr. Advisory Engineer at Hitachi, will present on "Proposed AeroMACS PKI Specification is a Model for Global and National Aeronautical PKI Deployments" on Tuesday, April 19 at 2:30PM.

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 look forward to continuing to work with you in 2016!

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:

Three leading summits co-located with a joint networking exhibition. Benefit from in-depth discussion and content over 2 information-packed days. Each summit features over 50 visionary speakers – gain a unique insight from industry heavyweights and hear case study examples from major contributors. **Smart Summit Frankfurt** will take place **on April 6-7, 2016 at Kap Europa, Frankfurt**.

The WiMAX Forum is proud to be a supporting organization!

For more information and event registration, please visit: **Smart Summit Frankfurt**.

The Utilities Telecom Council was founded in the USA in 1948 to represent the interests of telecommunications utilities before regulatory agencies and the government. Hosted by **UTC America Latina**, a nonprofit organization, the UTCAL SUMMIT 2016 will take place at Hotel Majestic Palace in **Florianopolis, Brazil on April 6-8, 2016**.

The WiMAX Forum will be at UTC America Latina 2016!

Come see WiMAX Forum President **Declan Byrne** to discuss WiMAX for Smart Grid, spectrum regulations, and the need of licensed spectrum on Thursday, April 7 at 4:30PM.

For more information and event registration, please visit: **UTC America Latina 2016**.

Broadband TV Connect Asia is the largest, content-led Telecoms and Media event in Asia. Bringing together both telecoms and connected entertainment communities, it is the best platform to engage operators and broadcasters in the Asia-Pacific region. It will take place on **April 11-13, 2016 at Shangri-La Hotel in Jakarta, Indonesia**.

The WiMAX Forum is proud to be a supporting organization!

For more information and event registration, please visit: **Broadband TV Connect Asia 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**.

The WiMAX Forum is proud to be a supporting organization!

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

The 2016 Integrated Communications Navigation and Surveillance **(ICNS) Conference** addresses long-term research and development of integrated CNS technologies for advanced aeronautical digital information systems and applications supporting the future global air transportation systems. It will take place on **April 19-21, 2016 at Westin Dulles Airport in Herndon, Virginia, USA**.

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

Come see the WiMAX Forum President **Declan Byrne** and **Dr. Nima PourNejatian** CTO , speak about "AeroMACS: How to Warrant Interoperability." on Tuesday, April 19 at 1:30PM. Brian Crowe, Vice Chair of the WiMAX Forum **Aviation Working Group (AWG)** and PKI Subcommittee, and Sr. Advisory Engineer at Hitachi, will present on "Proposed AeroMACS PKI Specification is a Model for Global and National Aeronautical PKI Deployments" on Tuesday, April 19 at 2:30PM.

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

TV Connect 2016 is the principal global based show focusing on the evolution of the Connected Entertainment industry, bringing together a unique mix of leaders in OTT TV, Pay TV, Broadcast, Cable, Broadband and Telco, with leading Technology Providers. Taking place in at **London's ExCeL Centre on 26th - 28th April 2016**, this market leading industry event translates trends, experiences and meetings into actionable business insight through focused content and concentrated networking opportunities, enabling the development of Next Generation Entertainment on a global

scale.

The WiMAX Forum is proud to be a supporting organization!

For more information and registration, please visit: **TV Connect 2016**.

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**.

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**.

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**.

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) and its task groups are making great progress with our key projects: AeroMACS Certification, AeroMACS PKI, and the FCC Policy Petition. The WiMAX Forum AeroMACS Designated Certification Laboratory (ADCL) is accepting its first products for Wave 1 AeroMACS Certification. CTG members are now focusing on Interoperability Testing and Protocol Conformance to support AeroMACS Certification Wave 2. In other key initiatives, the PKI task group is close to 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 recently attended a joint **ICAO** Working Group S and Working Group I meeting to continue collaboration with ICAO so that security policies produced in the group can serve as guidelines to other groups in the industry that are planning AeroMACS deployments. The AWG has also begun the planning for PKI testing event to demonstrate 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**. 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 February:

- **It's Not Too Late to Register: Expect Enormous Changes in Aviation Performance with Certified AeroMACS Webinar**
- **Next Airport Operations Team (AOT) 10 Meeting**
- **Sequans Appoints Didier Dutronc to Management Team**
- **Pakistan ends February with over 29 mln broadband subs**
- **CFS 2016 Panel: NextGen and SESAR**
- **FAA Releases 2016 to 2036 Aerospace Forecast**
- **CommunicAsia2016 Summit in Singapore on May 31**
- **NBAA 'Call to Action' Urges Support For Senate FAA Bill**
- **American Airlines CEO Seeks New Structure for FAA**
- **AeroMACS as the Standardized Solution for Aviation Worldwide**
- **NextGen funding in FAA's FY 2017 budget request**
- **World ATM Congress 2016 Welcomes Record Attendance, Cutting-Edge Aviation Technology**
- **Why spectrum auction to see limited participation from telecoms**
- **Senate FAA Bill Advances, With NBAA's Continued Strong Support**
- **West Africa Com Brochure & Registration Launched!**
- **Costa Rica to rule on ICE and Racsa licences by 2017**
- **AIN Business Aviation NextGen Workshop Held at Embry-Riddle**
- **Taiwan sets $73M budget for 5G R&D over 4 years**
- **How SESAR addresses radio spectrum**
- **FCC unveils mobile broadband privacy proposals**
- **All Together Now**
- **Smart Summit Frankfurt 2016**
- **World ATM Congress 2016 Airtel ATN Seminar & Presentations**
- **Siemens and IBM team on Next-Generation Building Energy Management Solutions**
- **Statement by NASA Administrator Bolden at FY 2017 Hearing**

- **FAA rolls out taste of NextGen air traffic control system in Dallas**
- **Airworthiness Manual Chapter 537 - Airworthiness Standards Appliances**
- **Dynamic Spectrum Sharing Summit + Demo to Cover Mobile Internet Connectivity**
- **Federal Communications Commission: Revision of the Commission's Rules to Permit Unlicensed National Information Infrastructure (U-NII) Devices in the 5 GHz Band**
- **Trends in Mobile Data & 4G Devices**
- **Congress Takes First Step in FAA Reauthorization**
- **ICNS Announcement List**
- **New contract extends to new network infrastructure**
- **Southwest Airlines Applauds Important Next-Generation Milestone At Denver International Airport**
- **Smartphone sector set for end of double-digit growth**
- **NextGen Capabilities Already In Place**
- **Pakistan ends January with nearly 28 mln broadband subs**
- **Delta Flies Solo on Air Traffic Control Lobbying**
- **35th DASC - Submission Deadline Approaching**
- **House FAA reauthorization legislation delayed**
- **TEACH, Inc. Waiver Request and Application for New Nationwide 3650-3700 MHz Service License**
- **Google calls satellite industry assertions 'logically inconsistent' in 3.5 GHz proceeding**
- **IATA's chief speaks at the Aviation Day USA event in New York**
- **IoT experts fret over fragmentation**
- **February 2016 WiMAX Forum Monthly Newsletter**

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