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The header features a dark blue background with a glowing green and blue globe. A network of white and blue lines is overlaid on the globe, representing a global communication network. The WiMAX Forum logo, consisting of two overlapping white circles, is positioned to the left of the text.

# WiMAX FORUM® NEWSLETTER

FEBRUARY 2016

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## INTRODUCTION

Dear Respected Colleague,

The **WiMAX Forum** with the help of our participating **member companies** is busy doing important work to keep WiMAX technology moving forward. On February 8, we hosted the well-received first conference of 2016 in conjunction with **DistribuTECH**. With participants from across the globe, **WiGRID 2016** was a great success.

The program highlighted the opportunities, challenges, and short- and long-term strategies to foster a prosperous future for the WiGRID ecosystem, demonstrating how to leverage today's events to the industry's advantage. The WiMAX Forum would like to especially thank speakers from the following companies:

<b>EPRI</b>	<b>Powertech Labs</b>
<b>Siemens</b>	<b>UTC</b>

WiGRID 2016 presented up-to-date information on the FCC activity, WinnForum & SAS, 700MHz narrowband channel, and 3.65GHz band. The WiMAX Forum and its 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. In December, 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.

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:

- **Industry of Things World USA 2016** held on February 25-26, 2016 at the Hard Rock Hotel in San Diego, CA. WiMAX Forum CTO **Dr. Nima PourNejatian** will discuss "Aviation Internet of Things" and other topics at World Café Roundtable 1 (Group A) on Friday, February 26 at 11:00AM.
- **Dynamic Spectrum Sharing Summit 2016** held at **IWCE** on March 21-25, 2016 at the Las Vegas Convention Center, Las Vegas, NV. WiMAX Forum President **Declan Byrne** will speak on the "Industry Roundtable: Spectrum Sharing and Dynamic Access: Where We Are, What We've Learned" panel at 10:15AM on March 22, 2016.
- **Webinar: Expect Enormous Changes in Aviation Performance with AeroMACS Certified** on Wednesday, March 30, 2016 at 08:00 AM PDT. Learn 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 deployments globally.

We will continue the pace in March, 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.

As a reminder the WiMAX Forum is currently winding down the bulk of its renewal season. Many of your organizations have been contacted by our membership and finance teams by now. 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:



**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. 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 **Dr. Nima PourNejatian**, WiMAX Forum CTO, 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](#).



**World ATM Congress 2016** is a global aviation conference attended by nearly 7,000 Air Navigation Service Providers, air traffic control (ATC) experts, air traffic controllers, high-tech/operations experts, as well as CEOs, senior managers, and other decision makers. Organized by the Civil Air Navigation Services Organization (CANSO) and Air Traffic Control Association (ATCA), the conference hosts expert speakers from the industry, military, and government to address the technologies behind ATM and the institutional and regulatory frameworks necessary to implement them. It will take place on **March 8-10, 2016 at IFEMA Feria de Madrid Convention Centre in Madrid, Spain.**

**The WiMAX Forum is proud to be a supporting organization and will be at World ATM Congress 2016!**

To schedule a meeting with [Declan Byrne](#), WiMAX Forum President, please email Alessandra Rocha at [Alessandra.Rocha@WiMAXForum.org](mailto:Alessandra.Rocha@WiMAXForum.org) for more details.

For more information and event registration, please visit: [World ATM Congress 2016](#).



The **Dynamic Spectrum Sharing Summit 2016** at IWCE showcases the Enabling Technology, Business Models and Policy Framework to Foster Dynamic, Secure and Efficient Allocation and Utilization of Wireless Spectrum. Dynamic Spectrum Summit focuses on business models, enabling technologies and regulatory challenges to a more flexible spectrum ecosystem that both preserves the spectrum licensing system in place and provides for innovative uses and utilization of spectrum for mobile communications, services and applications. It will take place on **March 21-25, 2016 at the Las Vegas Convention Center in Las Vegas, NV, USA.**

**The WiMAX Forum is proud to be a supporting organization and will be at Dynamic Spectrum Summit 2016!**

Come see [Declan Byrne](#), WiMAX Forum President, speak on the "Industry Roundtable: Spectrum Sharing and Dynamic Access: Where We Are, What We've Learned" panel at 10:15AM on March 22, 2016.

For more information and registration, please visit: [Dynamic Spectrum Sharing Summit 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**. Exclusive access to a C-level audience, delivering meetings and learning experiences for real business gains; this is the leading forum for high level networking across telecoms, broadcasting, and the entire connected community.

**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**. This event provides a forum to discuss new developments in technology, market conditions and end-user requirements, capabilities and features 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](#).



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 **Declan Byrne**, WiMAX Forum President, speak about "AeroMACS: How to Warrant Interoperability." More details about his participation will be posted soon.

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.**

**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](mailto: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

### Webinar: Expect Enormous Changes in Aviation Performance with Certified AeroMACS



While the world advances technologically in several areas, the majority of airport and aircraft communications systems remain outdated. Recently, new wireless broadband capabilities have been deployed to guarantee safety and regularity of flight services worldwide. To this end, the Aeronautical Mobile Airport Communication System (AeroMACS) profile has been adopted to support next generation airport surface communications needs.

Learn 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 deployments globally.

For more information and registration, please visit: [AeroMACS Webinar 2016](#).

## 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](mailto: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 now accepting its first products into the lab 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, which will be included in ICAO's Technical Manual and Guidance Material. The group is preparing additional working papers to support this that summarize Subscriber elements and other content, paving the way for a globally standardized PKI solution. AWG members will be attending upcoming meetings with both **ICAO** Working Group S and Working Group I. 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.

The WiMAX Forum hosted WiGRID 2016, a pre-conference session at DistribuTECH, to present up-to-date information on the FCC activity, WinnForum & SAS, 700MHz narrowband channel, and 3.65GHz band. 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. 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](mailto:Rich.Hawkins@WiMAXForum.org). To find more information on our Working Groups, please visit: [www.wimaxforum.org/about/working-groups](http://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 February:**

- [Webinar: Expect Enormous Changes in Aviation Performance with Certified AeroMACS](#)
- [FCC votes to adopt new 3.5 GHz spectrum sharing plan for 'Innovation Band'](#)
- [Penton's IWCE 2016 to Host the Dynamic Spectrum Sharing Summit + Demo in March in Las Vegas](#)

- **The president's 2017 budget request: Federal Aviation Administration**
- **Wireless Innovation Forum Spectrum Sharing Committee Publishes Report on Spectrum Access System**
- **GA raises concerns over proposal to privatize ATC**
- **Singapore's IDA outlines rules for 4G auctions as new entrant nears**
- **IEEE AINA 2016**
- **Don't Privatize Air Traffic Control**
- **NextGen – The Future of Air Transportation**
- **WinnForum's CBRS Document and Other Security Related Topics Webinar**
- **WiMAX Forum RF Network Engineer Certification**
- **The Intelligent Community Forum Names the Top7 Intelligent Communities of 2016**
- **World ATM Congress in Madrid March 2016**
- **FAA bill ensures safe, efficient air travel**
- **Japan ends December with nearly 153 mln mobile subscribers**
- **Air Traffic Control Spinoff Gains Speed, Prompts Worry**
- **Debate Begins on Pulling Air Traffic Control Out of Government**
- **Air traffic controllers ready to break away from FAA**
- **Guidance for AeroMACS Installation by the Airport Operator - FAA Industry Letter for Draft EB 97**
- **AeroMACS Presentation at Industry of Things World USA 2016 This Month in San Diego**
- **Everything You Need to Know About FAA Reauthorization and ATC Reform**
- **Production imminent at Kazakh project**
- **Notice of Seventeenth RTCA NextGen Advisory Committee (NAC) Meeting**
- **Pakistan passes 26 mln broadband subscribers milestone**
- **Seminar on Data Link Communications – Recife, Brazil**
- **Google argues for 'lightly licensed' and unlicensed approaches for shared spectrum**
- **Meet CelPlan at MWC16 in Barcelona on February 22-25**

- [Cisco strikes \\$1.4B Jasper deal in IoT push](#)
- [Kazakh Mines Sign Deals With Hexagon Mining](#)
- [Broadband extending to several areas of county by year's end](#)
- [WiGRID 2016 at DistribuTECH Next Week](#)
- [How Can ATC Keep Up With Increasing Traffic Levels?](#)
- [Play the Avionics News Quiz](#)
- [YouTube ban lift may offer respite to ISPs](#)
- [Advocacy Groups Form Coalition To Oppose ATC 'Privatization'](#)
- [SESAR JU Study Confirms Need for New Aviation Datalink Tech in Europe](#)
- [January 2016 WiMAX Forum Monthly Newsletter](#)



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