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INTRODUCTION

Dear Respected Colleague,

As 2016 comes to a close, we want to take a moment to express our sincere gratitude for your unflagging support and enthusiasm. Your insights, wisdom and unceasing collaboration allow us to represent the technology – taking WiMAX forward into new and exciting directions. Thanks to the generosity, commitment and contributions of our **membership**, we have been able to continue the expansion of our services, achieving significant milestones together through collaboration and growing the market for **WiMAX technology**.

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.

We continue to engage in ongoing **PR efforts** to promote the advantages of WiMAX-based standards from an industry-wide perspective. This year, the **WiMAX Forum** has widely advocated the capabilities of **AeroMACS**, the wireless broadband technology for the airport surface. The result of these efforts demonstrates 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. For more details about this year's AeroMACS activities, please click [here](#).

As this coming year promises further progress, we will continue to push forward, hosting and participating in many significant industrial events with the expectation that these markets will continue to increase in value as WiMAX's market share continues to expand. Here is the summary of **upcoming events** that we are hosting during the coming months:

- **WiGRID 2017 - DistribuTECH** on January 30, 2017. WiGRID 2017 will be a pre-conference session at DistribuTECH at the San Diego Convention Center in San Diego, CA.
- **AeroMACS 2017 - Madrid** will be held at World ATM Congress on 8 March at IFEMA - Feria de Madrid Convention Centre in Madrid, Spain.

We have been in touch with our members about our 2017 renewal cycle. As always, we stand ready to answer any questions that you may have. For more information regarding your membership status, please email Membership@WiMAXForum.org, and we will respond as quickly as possible.

If you have any questions, please reach out to us. We wish you a healthy and happy holiday season, and we look forward to speaking with you soon in 2017.

Best Regards,

WiMAX Forum

EVENTS

In the following months, the WiMAX Forum will host and attend events globally. We continue our efforts to bring you quality events hosted by the WiMAX Forum, and we will present and participate at key industry events. The WiMAX Forum team looks forward to seeing you at these events.

The following is the summary of the upcoming events:



The **Smart Cities International Symposium and Exhibition** brings together thought leaders and practitioners from around the world to explore the most recent technology advances, business models, and lessons learned to date in making the Smart City a reality **on January 24-25, 2017 in Chicago**. Expert speakers will examine the experiences of municipal governments who are pushing the envelope and moving toward actual implementation of the Smart City vision. The emphasis is on implementation strategy, case studies, best practices, and the development of compelling business models for transitioning to the 21st Century Smart City.

The WiMAX Forum is proud to be a supporting organization!

For more information, please visit: [Smart Cities International Symposium and Exhibition 2017](#).



DistribuTECH is the leading annual electric power transmission and distribution conference & exhibition event that addresses technologies used to move electricity from the power plant through the transmission and distribution systems to the meter and inside the home.

The WiMAX Forum will host **WiGRID 2017 - DistribuTECH**, a pre-conference session, on **Monday, January 30, 2017 in Room 30E** at San Diego Convention Center. The seminar will focus specifically on supporting the Utilities and Smart Energy community.

For more information and registration, please visit: [WiGRID 2017 - DistribuTECH](#).



Serving the industry for 24 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 25th Edition of Convergence India 2017 expo is themed as "Digital India." The 25th Convergence India will take place on **February 8-10, 2017 at Pragati Maidan, New Delhi, India.**

The WiMAX Forum is proud to be a supporting organization!

For more information, please visit: [Convergence India 2017](#).



Industry of Things World is an international knowledge exchange platform bringing together all stakeholders who play an active role in the Industrial Internet of Things scene. For its 2nd year over 500 Industrial Internet experts will gather in **February 20-21, 2017 at the Hard Rock Hotel San Diego, CA.**

The WiMAX Forum is proud to be a supporting organization!

For more information, please visit: [Industry of Things World 2017](#).



The WiMAX Forum is pleased to announce the second annual **AeroMACS 2017 – Madrid**. The seminar will be held at World ATM Congress on Wednesday 8 March from 13:00 to 17:00 at IFEMA - Feria de Madrid Convention Centre in Madrid, Spain. The seminar will focus on supporting the global

Aviation Community in managing profitable developments and growth of their AeroMACS networks.

For more information, please visit: [AeroMACS 2017 – Madrid](#).

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](#).**

INDUSTRY SPOTLIGHT

• **AeroMACS Gains Momentum with Worldwide Activities and Achieved Milestones**

The WiMAX Forum and its member companies have advanced AeroMACS through participation in events and technical meetings

The Aeronautical Mobile Airport Communications System (AeroMACS) has gained growing momentum this year with the WiMAX Forum® and its member companies raising awareness to a diverse audience about the value of this wireless broadband technology for the airport surface and furthering the deployment of AeroMACS. The WiMAX Forum attained this through a wide variety of activities around the globe, which include hosting, presenting, and participating in events and technical meetings; achieving important milestones; and more. Collaboration among key players in aviation and wireless industries demonstrates support of AeroMACS as a vital industry standard.

To read the complete press release, please click [here](#).

• **WiGRID 2017 – DistribuTECH to Expand on Narrowband**

The WiMAX Forum and CelPlan Technologies to provide information on how to maximize Narrowband initiative

The WiMAX Forum is proud to announce that it will jointly host with CelPlan Technologies the annual WiGRID 2017, a pre-conference session at DistribuTECH on Monday, January 30 at 2:00-5:30PM at San Diego Convention Center, San Diego, CA, USA. The event will support utilities and the Smart Energy community in deploying affordable, effective wireless networks and progressing their communication initiatives. Participation is free to all DistribuTECH attendees.

WiGRID 2017 – DistribuTECH will focus on Narrowband, the upper 700 MHz A Block spectrum band in the form of two narrow, 1-megahertz channels. The afternoon pre-conference session will expand on the value proposition, profile development, certification, spectrum policy, security, collaboration with

IEEE, solutions available to the market, and more. WiGRID 2017 – DistribuTECH will highlight the opportunities and challenges, and it will allow attendees to network, share best practices, and work collaboratively with industry experts to shape the desired outcomes that will drive success in the industry for Narrowband.

To read the complete press release, 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 [Shinsei Corporation](#), and [The Second Research Institute of CAAC](#) the newest members for 2016.

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) collaborates on three key initiatives: AeroMACS PKI, AeroMACS Certification, and the FCC Policy Petition. The AWG PKI Task Group is currently conducting a PKI trial demonstration as a proof of concept to confirm the AeroMACS PKI Certificate Profiles as a final step to commercializing AeroMACS PKI. If your company is interested in participating in this trial, please reach out to Rich Hawkins at Rich.Hawkins@WiMAXForum.org. Additionally, AWG members are collaborating with [ICAO](#) Working Groups so that security policies produced in the AWG match industry requirements and will serve as guidelines to other industry groups that are planning AeroMACS deployments as well as serve as a PKI model for other Aviation technologies.

While additional products are now in the lab conducting Radio Conformance Testing (RCT), the AWG Certification Task Group is driving development of the specification for Protocol Conformance Tests (PCT) to support AeroMACS Certification. As a final step, the group is completing the specification for Interoperability Tests (IOT). Powertech Inc., the WiMAX Forum AeroMACS Designated Certification

Laboratory, is validating the setup and tests. In 2017, AWG will begin lab validation and full AeroMACS certification.

The Forum is finalizing its Service Rule petition to the FCC for the use of AeroMACS Spectrum in the United States with plans to submit the petition in Q1 2017. This Service Rule petition will set the ground rules for exploitation of the spectrum for the next 20 years.

The WiMAX Forum and CelPlan Technologies will host **WiGRID 2017 – DistribuTECH** on January 30 in San Diego, CA, USA to discuss how Narrowband—the upper 700 MHz A Block spectrum band in the form of two narrow 1-MHz channels—can meet smart energy communication needs. The Smart Energy Working Group (SEWG) members also 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. The reply comments to the FCC have been in favor of increasing the protection for grandfathered zones. 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:

- **AWG** - Aviation Working Group - *Procedures, Profiles & AeroMACS Initiative*
- **SEWG** - Smart Energy Working Group - *Requirements & WiGRID Initiative*
- **SPWG** - Service Provider Working Group - *Requirements & WiMAX Advanced Initiative*
- **TWG** - Technical Working Group - *Technical*
 - **CTG** - Certification Task Group - *Technical*
 - **NTG** - Network Task Group - *Technical*

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 December:

- **AeroMACS: The New-Generation Airport Datalink for Airlines, Airport Authorities and Air Navigation Service Providers to Stay Connected at Airports**
- **Take the NextGen News Quiz!**
- **Aviation Data Link - Security, Segmentation, QoS**
- **FCC Puts Final Rules in Place For New Citizens Broadband Radio Service**
- **NASA, FAA Demonstrate Wireless Communication with Aircraft**
- **Purchase of AeroMACS Technology equipment for field trial**
- **Scary Experimentation at 3.5 GHz**
- **AeroMACS Could Emerge as an Enterprise Solution for the FAA**
- **Boston Logan Test Will Drive WiMAX Guidance**
- **AeroMACS: It's like a Real-time GPS, but Better!**
- **WiGRID 2017 – DistribuTECH to Expand on Narrowband**
- **AeroMACS Featured at NextGen - SESAR State of Harmonisation Publication**
- **FAA Eyes NextGen Data Comm Service Implementation at 56 Airports by Year's End**
- **BSNL Tezpur takes steps to provide high speed internet facilities to TEs, GPs**
- **DOE Announces Nearly \$20 Million to Accelerate Energy Efficient Transportation and Systems**
- **Federated Wireless and Alphabets Access Team Demonstrated Operational Viability of Shared Spectrum Solution for CBRS Band**
- **Convergence India in New Delhi on February 2017**
- **Liquid Telecom gets regulatory approval to acquire Raha**
- **ICAO concludes successful 9th ICAO Air Services Negotiation Conference**
- **Ireland to handle 1.1m flights in 2016**
- **AeroMACS Gains Momentum with Worldwide Activities and Achieved Milestones**
- **Xinjiang Air Traffic Control Network Communication Company to carry out civil aviation 5G AeroMACS research**
- **AeroMACS Summit at the World ATM Congress on March 8, 2017**
- **IFALPA Cyber Threats Briefing**

- **Wireless Innovation Forum approves CBRS protocols**
- **Modacom invests in PATI**
- **New Chief of ICAO Air Navigation Commission Appointed**
- **Bangladesh internet user base jumps to nearly 67 mln in Sept**
- **Brazil to announce streamlined regulation package for airlines**
- **Siemens and General Electric gear up for the internet of things**
- **New round of ATM projects secure green light**
- **Gillibrand pushing bill to expand rural internet**
- **SESAR 2020: The ATM Master Plan for Europe kicks off**
- **Hitachi to Invest \$1.25 bn AUD in Australian Social Innovation Business**
- **CommunicAsia2017 Summit enjoy a 15% discount off the registration fees**
- **Five firms interested in Philippines spectrum auction**
- **Brenner to exit Eurocontrol next year**
- **November 2016 WiMAX Forum Monthly Newsletter**



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