

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

# WiMAX FORUM<sup>®</sup> NEWSLETTER

JANUARY 2015

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## INTRODUCTION

**Dear Friends and Members** - Happy New Year! We at the WiMAX Forum hope that you all had a wonderful holiday season! We believe 2015 is going to be a great year for the WiMAX ecosystem and our membership. We as an industry body, with the help of our participating **member companies**, are busy doing important work to keep WiMAX technology moving forward.

As 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.

Throughout 2015 we plan to host and participate in a number of Aviation, Utility and Oil & Gas focused events. The WiMAX Forum is looking forward to another great event season. Here is the summary of upcoming events that we are hosting during the coming months:

- **WiGRID 2015 - DistribuTECH** on February 2, 2015. WiGRID 2015 will be a pre-conference session at **DistribuTECH** at the San Diego Convention Center in San Diego, CA.
- **WiMAX Aviation 2015 - Madrid** will be held at **World ATM Congress** on Tuesday 10 March from 14:00 to 18:00 and Wednesday 11 March from 13:00 to 17:00 at **IFEMA - Feria de Madrid Convention Centre**, Recinto Ferial Juan Carlos I, Parque Juan Carlos I, s/n, 28042 Madrid, Spain.

In a similar way, we plan to attend and participate at the following industrial market events: **ACI-NA Annual Conference**, **AEEC Coral Gables**, **ATCA**, **DistribuTECH**, **ICNS**, **Internet of Things World**, **Oilcomm**, **UTC Telecom**, **UTCAL**, **Wireless China Beijing**, **World ATM Congress**, and **more**. As details concerning these events become available we will communicate them to you.

As a reminder the WiMAX Forum is currently winding down the bulk of its renewal season. Many of your organizations will 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 2015!

Best Regards,

WiMAX Forum

## EVENTS

In 2014 the WiMAX Forum hosted its own events and also participated in a range of important industry events spanning the globe. In 2015 we will continue in our efforts to bring you quality events directly hosted by the WiMAX Forum, and will also have a presence at key industry events.

The WiMAX Forum team looks forward to seeing you at our events. The following is the summary of the upcoming events:



**WiGRID 2015 - DistribuTECH** will be a pre-conference session at **DistribuTECH** on **Monday, February 2, 2015** in **San Diego, California** at the **San Diego Convention Center**. The program will focus specifically on supporting the Smart Grid community in deploying effective and affordable WiMAX networks to support their communication initiatives.

**WiGRID 2015 - DistribuTECH** will present real Case Studies from Utilities, Operators, and Vendors. Additionally, the **Smart Energy Working Group (SEWG)** will meet for continuation of group business, and attendees are invited to observe.

Participation is free to attendees of DistribuTECH. It is open to all participants of the WiMAX ecosystem, and membership in the WiMAX Forum is not a requirement to attend. **WiGRID 2015 - DistribuTECH** participants will receive an Association Full Conference price to register for DistribuTECH.

For more information and registration, please visit [WiGRID 2015 - DistribuTECH](#).



The WiMAX Forum is pleased to announce the first WiMAX Aviation seminar in Madrid. **WiMAX Aviation 2015 - Madrid** will be held at **World ATM Congress** on Tuesday 10 March and Wednesday 11 March from 13:00 to 17:00 at **IFEMA - Feria de Madrid Convention Centre**, Recinto Ferial Juan Carlos I, Parque Juan Carlos I, s/n, 28042 Madrid, Spain. The Seminars will focus on supporting the global Aviation Community in managing profitable developments and growth of their AeroMACS networks.

**WiMAX Aviation 2015 - Madrid** is a seminar for all participants to meet, exchange ideas, and develop business and cooperative relationships. The event will highlight the opportunities, challenges, and strategies involved in operating efficient AeroMACS networks.

WiMAX Aviation 2015 - Madrid will be an interactive seminar. **Participation in the seminar is free to the attendees of World ATM Congress**. It is open to all participants of the Aviation ecosystem and membership in the WiMAX Forum is not a requirement to attend.

**Registration is required for this event.** For more information and registration, please visit [WiMAX Aviation 2015 - Madrid](#).

**Supported By:**



The **IoT Global Innovation Forum 2015** brings together leading technology innovators, business strategists, and developers from around the world for two days of focused networking and information sharing at the IoT cutting edge. Expert speakers will discuss the latest applications for traditional commercial processes as well as new business models and opportunities within the emerging Internet of Things ecosphere. IoT Global Innovation Forum 2015 will take place on **April 21-22, 2015 in Dallas, TX, USA** at the **Dallas Marriott City Center**.

**The WiMAX Forum is proud to be a supporting organization and be at IoT Global Innovation Forum 2015!**

Come see **Dr. Mo Shakouri**, WiMAX Forum Chairman, speak at the event. More details will be shared soon.

For more information and event registration, please visit **IoT Global Innovation Forum 2015**.



Informa's **Internet of Things World 2015** is the world's largest independent IoT event with over 4,000 attendees, 250+ industry thought leaders and 150+ exhibitors. 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. It will take place on May 12-13, 2015 at Moscone Center, San Francisco, USA. 2014 has been an important year for IoT with huge opportunities of this technology now firmly being realized. Accenture's recent report predicts that 69% of consumers plan to buy an in-home device by 2019, reaffirming that consumer adoption of connected technology is on the rise.

**The WiMAX Forum will be at Internet of Things World 2015!**

Come see [Declan Byrne](#), WiMAX Forum President, speak on the "Addressing the key challenges facing developments in Connected Transport Systems" panel during the "Integrated Transport Systems" Track at a TBD time on May 12, 2015. Check back soon for more details.

For more information and event registration, please visit [IoT World 2015](#).



Rising size of mobile workforce, increasingly complex demands by users, coupled with the proliferation of connected devices have made this industry more dynamic than ever. It has also blurred the line between work and personal time as seen in the rise of mobility driven innovations such as smart living solutions, wearable technologies, and many others.

At CommunicAsia2015, the latest innovative technologies from Big Data, Business Analytics, Cloud technologies, IoT, to Zigbee will be unveiled, that will change the way we live and work. It will take place on **June 2-5, 2015 at Marina Bay Sands, Singapore**.

For more information and event registration, please visit [CommunicAsia2015](#).



Serving the industry for over 26 years, the Exhibitions India Group which has played an integral role in the changing landscape of the Information and Communication environment in South Asia, has now joined hands with AfriEXPOS, Africa's premier expo organizer to bring its expertise through [Convergence Africa World](#), which **will take place on 17-19 June 2015 in Oshwal Centre (Parklands) Nairobi, Kenya**.

The expo will showcase innovation and merger of technologies over any screen – be it a computer / laptop, telephone, or TV screen. Focused business matching will provide the perfect opportunity to network with industry bellwethers and establish new relationships.

For more information and event registration, please visit [Convergence Africa World 2015](#).

## **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.

### **Sponsorship opportunities include:**

- Media Sponsorship (*Free*)
- Diamond Sponsorship (*WiMAX Forum Members Only*)
- Platinum Sponsorship
- Gold Sponsorship
- Silver Sponsorship
- Exhibitor (*Upon Availability - WiMAX Forum Members Only*)

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 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.

**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](#)
- [Intellicom 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](mailto:Membership@wimaxforum.org).

## WORKING GROUPS

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

The Aviation Working Group (AWG) is collaborating on four key projects: AeroMACS Certification, Network Reference Model, AeroMACS PKI, and FCC Service Policy Petition. The AWG Certification Task Group is finalizing IOT Sue Scenarios and beginning work to map test cases for the IOT use cases for the purpose of developing tests for our first AeroMACS Certification Testing Event. While the Network Reference Model Task Group has identified the 3 deployment phases, members are identifying specification applications to drive the each phase and developing the business case for AeroMACS, which will be presented at February and March events. As the work to develop an AeroMACS Network Reference Model continues, the results can be used as the basis to begin FCC Petition development in 2015. In the AWG PKI Task Group, Symantec presented a document outlining the Proof Of Concept for Airport trial networks that may be interested in a free trial of a WiMAX X.509 PKI platform. The Forum and Symantec will be distributing a proposal and process flow in the near future.

The Smart Energy Working Group (SEWG) along with a coalition of utilities is drafting a paper for delivery to the FCC in their continued response to the recent **FCC FNPRM** related to spectrum in the 3.5 GHz band. Additionally, WiMAX Forum vendors plan to participate in the Spectrum Access System (SAS) structure to influence the rules that regulate the band. Much of this will be discussed at the **SEWG Face-to-Face at DistribuTECH** on February 2, 2015. Collaborating with API, Ameren, CenterPoint Energy, Houston Electric, Exelon, and UTC, the WiMAX Forum continues to pursue what is best for the Smart Grid industry. For other Smart Energy initiatives, SEWG presented at OilComm and has plans to present WiMAX for Rail at an AAR Wireless Communications Committee meeting based on use cases and applications defined by the rail industry.

In 2014, the Service Provider Working Group (SPWG) published a white paper called "WiMAX Advanced: Deployment Scenarios Based on Input from WiMAX Operators and Vendors", defining common scenarios and providing recommendations for WiMAX and WiMAX Advanced co-existence and/or transition. To read the white paper, please [click here](#). The SPWG will continue to work with WiMAX Operators in 2015 as they implement WiMAX Advanced.

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*
- **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 - *Technical*
- **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!**

To view the most up-to-date information on our Working Groups, please visit [www.wimaxforum.org/about/working-groups](http://www.wimaxforum.org/about/working-groups).

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).

## INDUSTRY SPOTLIGHT

### • **AeroMACS Implementation Analyses**

*MITRE Technical Report*

The FAA is currently in the process of developing a strategy for the implementation of the Aeronautical Mobile Airport Communications System (AeroMACS) in the National Airspace System (NAS). AeroMACS networks will provide high-data-rate communications in the airport environment in support of Next Generation Air Transportation System (NextGen) operations.

At the request of the FAA, the MITRE Corporation's Center for Advanced Aviation System Development (MITRE/CAASD) has provided technical inputs to the AeroMACS strategy development team, and performed technical analyses of AeroMACS scenarios. These analyses will provide inputs for future channelization planning activities, and will facilitate the definition of use cases for Concept of Operations (CONOPS) development. MITRE/CAASD has also performed an analysis to identify potential NextGen Operational Improvements that AeroMACS networks could support.

This report documents MITRE's contributions, analyses, and findings.

For additional information and to download the complete report please visit the following link: [MITRE Technical Report - AeroMACS Implementation Analyses](#).



## • Improving the safety, capacity and efficiency of airport traffic management with AeroMACS

*Declan Byrne, President and CEO, WiMAX Forum and Roy Alope, Senior Program Manager, Honeywell Advanced Technology*

For the past 50 years, the aviation industry has set an unparalleled standard for transportation safety and efficiency. In spite of a few notable headlines, there remains a higher safety rate in aviation than in most other methods of travel. With the support of a broad range of international stakeholders, the industry is in the midst of a global adoption of 'next-gen' wireless technologies designed to enhance the safety, capacity and efficiency of fixed and mobile ground communications.

AeroMACS, the aeronautical mobile aircraft communication system, provides the broadband connectivity needed to support the growing bandwidth demands of aircraft and ground infrastructure and air traffic management applications. This paper examines the past, present and future of AeroMACS, including: limitations to the current approach to airport communications; an overview of the WiMAX 802.16 standard and its advantages for aviation; potential barriers to AeroMACS adoption; and use models that will drive future implementations.

This publication has been featured in the Journal of Airport Management - Volume 9 Number 1 (Winter 2014-15). Each volume of Journal of Airport Management consists of four quarterly 100-page issues. If you are interested in reading the entire paper, please visit the following link: [Journal of Airport Management](#).

## 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 January:**

- [The Ultimate Roadmap: WiMAX Forum Hosting Utility and AeroMACS Focused Conferences](#)
- [CIO Review Magazine Special Edition on "Oil&Gas Technology Solution" Featuring WiMAX Forum Article](#)
- [AeroMACS Implementation Analyses](#)
- [While at World ATM Congress Explore AeroMACS at WiMAX Aviation 2015](#)
- [SGIP announces Call for Candidates for their Board of Directors](#)
- [ACC approves appointment of Anupam Shrivastava as BSNL CMD](#)
- [TTK launches WiMAX network in Nevinnomysk](#)
- [CommunicAsia2015 Registration Open](#)
- [Antenna Tackles Wi-Fi and WiMAX](#)
- [Cameroon Telecommunication Market: New market information available](#)
- [New 75 Ohm, PC-Controlled, Programmable USB-Powered Digital Attenuator](#)
- [Enforta launches new telephony node in Syzran](#)
- [BSNL CMD Anupam Shrivastava: to focus on turning around into a profitable biz](#)
- [Discover your next Outsourcing location](#)
- [Alepo inks network modernization deal with Colombian telecoms Emcali](#)
- [Internet exposure](#)

- [WiMAX Aviation 2015 - Madrid at World ATM Congress](#)
- [Smart Grid: Drones for Utilities](#)
- [FCC CES: Wheeler Signals Title II Is Likely](#)
- [SPTC falls under Class A Public Enterprise despite challenges](#)
- [Accenture to Acquire Structure](#)
- [23rd Convergence India 2015](#)
- [Embrace A Wireless Connected World](#)
- [Algeria mobile customers increase to almost 46 mln](#)
- [Part II: Most Read 2014 Newsbrief Articles from WiMAX Forum](#)
- [Part I: Most Read 2014 Newsbrief Articles from WiMAX Forum](#)
- [December 2014 WiMAX Forum Monthly Newsletter](#)



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