

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

WiMAX FORUM[®] NEWSLETTER

MARCH 2015

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INTRODUCTION

Dear Respected Colleague,

This month, the WiMAX Forum leadership hosted a very important and well-received event. On March 10-11, we hosted the first AeroMACS conference of 2015 in conjunction with **World ATM Congress**.

WiMAX Aviation 2015 - Madrid was a great success with dozens of attendees from around the world who joined to discuss the future outlook of airport communications. The event illustrated the tremendous potential and interest in the use of AeroMACS, and further drove collaboration among key industry players in the support of broadband technology as an industry standard.



Attendees were treated to two half-day programs, including speakers from WiMAX vendors, airlines, airport authorities, the various government representatives from the United States, Europe, Canada, and other groups touching on a wide range of topics. The program highlighted opportunities, challenges and strategies involved in operating a profitable AeroMACS network with real Case Studies from Airports, Operators, and Vendors. The WiMAX Forum would like to especially thank speakers from the following companies:

| | |
|------------------------------------|--------------------------------|
| Airbus | SAAB Sensis |
| Airtel ATN | Selex ES |
| ARINC Standards Development | Senza Fili Consulting |
| EUROCONTROL | Sequans |
| FAA | SESAR Joint Undertaking |

| | |
|---------------------------------------|------------------------------|
| Hitachi | Siemens |
| Honeywell | SITA |
| Honeywell Government Relations | Symantec Corporation |
| ICAO | Telrad Networks |
| NASA | Thales Communications |

A new white paper entitled, "*AeroMACS: A Common Platform for Air Traffic Management Applications*," was released shortly before WiMAX Aviation 2015 and the main Conference. Published by **Senza Fili Consulting**, the research identifies the latest AeroMACS applications and benefits to key stakeholder groups. Senza Fili Consulting President, Monica Paolini was in attendance and presented the highlights of the research, alongside other aviation experts.

Next month, the WiMAX Forum 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. Here is the summary of upcoming events that we are participating in the coming months:

- **ICNS Conference 2015** on April 21 - April 23, 2015 in Herndon, Virginia. WiMAX Forum President Declan Byrne will discuss AeroMACS the Next Generation Standard in Air Traffic Management.
- **IoT Global Innovation Forum 2015** on April 21 - April 22, 2015 in Dallas, Texas. WiMAX Forum Chairman Dr. Mo Shakouri will speak at the event.
- **Internet of Things World 2015** on May 12-13, 2015 in San Francisco, California. WiMAX Forum Chairman Dr. Mo Shakouri will speak on the "Addressing the key challenges facing developments in Connected Transport Systems" panel during the "Integrated Transport Systems" Track.

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 at the WiMAX Forum wish you all a wonderful remainder of March, and a tremendous April.

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:



Carrier Wi-Fi Asia is a great opportunity to hear how Asian operators are rolling out some of the largest Wi-Fi deployments in the world and what the next steps will be. The event is supported by the Wi-Fi alliance and attracts over 400 delegates, demonstrating the growth and potential in the industry. It will take place on **April 20-21, 2015 in Singapore**.

The WiMAX Forum is proud to be a supporting organization! For more information and event registration, please visit [Carrier Wi-Fi Asia 2015](#).



This year's theme: Innovation in Operations, Implementation Benefits and Integration of the CNS Infrastructure.

The 2015 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. ICNS 2015 will take place on **April 21-23, 2015** at the **Westin Washington Dulles Airport, Herndon, Virginia**

The WiMAX Forum will be at ICNS 2015!

Come see WiMAX Forum President **Declan Byrne** discuss WiMAX for **Aviation** - AeroMACS the Next Generation Standard in Air Traffic Management. For additional information, please visit: **ICNS 2015**.



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**.



East AfricaCom represents the most advanced region of the continent for mobile and digital communications, mobile money and ICT development. From and established 12 years supporting the market the East AfricaCom event will showcase the innovators and business leaders that are creating the next phase of the digital ecosystem. It will take place on **May 6-7, 2015 in Kenya at the Safari Park Hotel**.

Regulators, operators, ISPs and digital leaders will gather seamlessly to discuss the connectivity challenges across the region. Mobile money as the great differentiator to East African markets takes a dedicated stream this year, showcasing innovation in mobile financial services and the new strategies for corporations taking up MVNO licenses.

The WiMAX Forum is proud to be a supporting organization! For more information and event registration, please visit **East AfricaCom 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 in San Francisco, CA USA at the Moscone Center.**

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

Come see **Dr. Mo Shakouri**, WiMAX Forum Chairman, 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.**

The WiMAX Forum will be at CommunicAsia2015!

Come see **Dr. Mo Shakouri**, WiMAX Forum Chairman, speak on the "Developments in WiMAX: Where is WiMAX Now Being Deployed and What are its Future Prospects?" on June 4 at 2:40pm, which is Day 3 - Maximizing your Revenue via DSL, Fiber, and Wireless.

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.

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**
- **Intellecom 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.

INDUSTRY SPOTLIGHT

AeroMACS: A Common Platform for Air Traffic Management Applications

By Monica Paolini, Senza Fili Consulting

In a new white paper, leading analyst firm **Senza Fili Consulting** highlights the results of extensive

interviews with three primary stakeholder groups in the aviation industry, including air traffic control agencies, airlines and airports. The research surveys three different application areas in which AeroMACS plays a foundational role: ground-to-aircraft, mobile (staff and vehicles and other mobile assets), and fixed (i.e. backhaul for ground assets).

According to Senza Fili, larger airports in developed countries will lead the early adoption of the AeroMACS platform. Airport wireless connectivity is dominated by legacy technologies that cannot support the wide-set services and applications at the core of next generation ATM. Without AeroMACS, aviation ground communications risk fragmentation, with inefficient coexistence of multiple wireless technologies. The paper defines several business models, designed to maximize economies of scale and enable resource sharing of the ground communications infrastructure among stakeholders.

AeroMACS has the flexibility to support many applications concurrently—in a scalable and cost-effective way. It is neither limited to narrow-band applications, nor exclusively supporting a small set of applications. To date, air traffic control agencies have been the strongest proponents of AeroMACS adoption. The technology plays a crucial role in maintaining security and safety standards as air traffic congestion grows.

If you are interested in reading the full white paper "AeroMACS: A Common Platform for Air Traffic Management Applications", please click [here](#).

To download the previous white paper, entitled, "Enabling the Next Generation in Air Traffic Management with AeroMACS," please click [here](#).

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 Scenarios and beginning work to map or develop IOT use cases to develop tests for our first AeroMACS Certification Testing Event. The Network Reference Model Task Group members are fleshing out the specific aspects of the model, focusing on applications, the link budget, channel capacity and latency, and network cost projections. The work thus far will result in a high-level, technical white paper that the WiMAX Forum will publish next month. The WiMAX Forum plans to publish a comprehensive AeroMACS proof-of-concept deployment plan for Dallas Fort Worth International Airport. 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 has incorporated members' feedback into its Proof of Concept overview for Airport trial networks. Initial testing will be performed by a single vendor and then this proof of concept offer will be made available to all members deploying AeroMACS network trials. Members are also encouraged to provide input on a PKI Policy Considerations Document in development.

The Smart Energy Working Group (SEWG) is participating in the Wireless Innovation Forum (WinnForum) Spectrum Access System (SAS) to influence the rules that regulate the 3.5 GHz band in their continued response to the **FCC FNPRM**. Collaborating with API, Ameren, CenterPoint Energy Houston Electric, Exelon, and UTC, the WiMAX Forum continues to investigate other smart grid spectrum alternatives and pursue the interests of 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 - *Advisory*
- **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!

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 March:

- [NextGen Ahead - Where We're Going](#)
- [IoT Global Innovation Forum 2015 features WiMAX Forum participation!](#)
- [NAPAfrica peering boosts cross-border business](#)
- [Carrier Wi-Fi Asia 2015 - Receive a 25% Discount on Registration!](#)
- [Ghariyan gets better WiMAX coverage](#)
- [ICNS Conference 2015 Features AeroMACS Presentation](#)
- [Extending NextGen Capabilities via Wireless Airport Surface Services](#)
- [Exploratory research: A catalyst for excellence in ATM R&I in Europe](#)
- [Radwin completes Moscow Wi-Fi deployment on metro trains](#)
- [SGIP 2015 Annual Conference: Call for Presentations](#)
- [Five Technologies to Watch at World ATM Congress 2015](#)
- [2015 SESAR Project Awards winners recognised for work on airports and i4D](#)
- [World ATM Congress Opens: Largest Air Traffic Event Expands](#)
- [Google worries about warehousing in 3.5 GHz band](#)
- [The Deployment of Wireless Internet Technologies in Africa](#)
- [Montenegro broadband users advance to 97,300](#)
- [Providers to ensure better internet connection](#)
- [Download the full conference brochure now to find out which of the most influential leaders in the ICT industry would be sharing their insights at CommunicAsia2015 Summit!](#)
- [Researchers develop surveillance](#)
- [Enforta provides internet for remote training in Buryatia](#)
- [Pathanamthitta SSA in expansion mode](#)
- [Latest Senza Fili White Paper Forecasts AeroMACS 'Ready for Takeoff' as a Common Platform for Air Traffic Management](#)
- [NextGen – SESAR: State of Harmonisation Document](#)
- [World ATM Congress Countdown Begins!](#)
- [Enhancing efficiency of multi-core processors](#)
- [Salt River Project Wins International Award for Grid Modernization Efforts](#)
- [TTK launches first WiMAX network in Ural region](#)
- [Data Technology Solutions and OneAccess Networks Enter Into Reseller Agreement](#)
- [SoCs selected for use in government communications solutions](#)
- [5 Startups Working on Drones](#)

- [Enforta expands services for Sberbank](#)
- [A guide to the week's virtual operator developments](#)
- [World ATM Congress 2015 Digital Preview features WiMAX Forum Article](#)
- [The WiMAX Forum and Utility Industry Submit an Ex Parte to the FCC Regarding the CBRS Band](#)
- [TTK launches WiMAX network in Pervouralsk](#)
- [Mobility, Network Intrusions Driving Network Security Market in India](#)
- [Central America & Caribbean to Invest in Smart Grid Infrastructure](#)
- [Enforta starts services for Archangel freight carrier](#)
- [Wateen and Qubee Starts Implementing Merged WiMAX Network](#)
- [How the Internet of Things is affecting urban design](#)
- [February 2015 WiMAX Forum Monthly Newsletter](#)



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