

The header features a dark blue background with a glowing green globe and network lines. The WiMAX Forum logo, consisting of two overlapping circles, is positioned to the left of the text. The text 'WiMAX FORUM' is in a large, white, sans-serif font, with 'NEWSLETTER' in a smaller, white, sans-serif font below it.

WiMAX FORUM[®] NEWSLETTER

NOVEMBER 2016

IN THIS ISSUE

- **Introduction**
- **Events**
- **Industry Spotlight**
- **Membership Services**
- **Working Groups**
- **WiMAX Forum News**

INTRODUCTION

Dear Respected Colleague,

The **WiMAX Forum** and its **member companies** continue to attend and participate in important, well-received industry **events** to grow the market for WiMAX technology and address the needs of the WiMAX community.

Last month, the WiMAX Forum with support from **CelPlan Technologies, Powertech Labs Inc., Siemens,** and **Telrad Networks** hosted the **AeroMACS 2016 – National Harbor** summit on October 18 and exhibited at the **61st Annual ATCA Conference & Exhibition 2016** to share the latest significant developments for the technology, which included new deployments at airports around the globe, certification, security with PKI, and more. The ATCA Conference was held on October 16-19 in National Harbor, MD, USA.

This month, the WiMAX Forum along with its member companies participated in the **AeroMACS Working Group** on November 3-4, 2016 in Annapolis, Maryland. This activity is to develop an aircraft IP-based transceiver intended for future Air Traffic Service (ATS) and Aeronautical Operational Control (AOC) broadband communication with an airport ground surface network. The AeroMACS Radio Unit (ARU) will operate in the protected AM(R)S C-band frequencies of 5091 to 5150 MHz, using the IEEE 802.16e-2009 WiMAX protocol.

The next few months promise much progress for the WiMAX market and specially AeroMACS, which is derived from our efforts in developing certification and security as well as our continuation in hosting and participating in several industrial events. Through our events, speaking opportunities, and webinars, we are reaching out to diverse audiences in the WiMAX community about implementing and developing **AeroMACS, WiGRID,** and WiMAX networks in ways that will best serve all stakeholders. Please stay tuned for more details and look for information on our **upcoming events** to be announced as of yet.

Our 2017 renewal cycle has begun. Members should have received communications to give ample time to pay their membership dues. For more information regarding your membership status, please send a message to **Membership@WiMAXForum.org**, and we will respond as quickly as possible.

If you have any questions, please do not hesitate to reach out to us.

We at the WiMAX Forum wish you all a wonderful remainder of November and a prosperous December.

Best Regards,

WiMAX Forum

EVENTS

In the following months, the WiMAX Forum will plan 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:

Carrier Network Virtualization

The **4th Annual Carrier Network Virtualization** brings together key players from the virtualization community to discuss and evaluate the steps needed to accelerate the development of NFV and SDN. It will take place on **December 5-8 in Palo Alto, CA** featuring the Mobile Edge Computing Focus day on December 8th and the Intel Network Builders workshop on December 5th, this is sure to be our most engaging conference yet.

The WiMAX Forum is proud to be a supporting organization!

For more information, please visit: [Carrier Network Virtualization 2016](#).

Smart Cities Summit

Smart Cities Summit will take place at the **Courtyard by Marriott in Boston on December 6 – 7**, we'll explore how to create successful collaboration between public & private sectors; the ways in which to fully leverage IoT Data; and the monetization opportunities that will help boost infrastructure, increase investment, make cities sustainable, and improve the quality of life for all.

The WiMAX Forum is proud to be a supporting organization!

For more information, please visit: [Smart Cities Summit 2016](#).



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. Bringing together 11,300+ individuals from 78 countries, DistribuTECH offers industry professionals from electric utilities, water utilities and other municipal utilities more information and networking opportunities than any other annual T&D event. It will take place on **January 31-February 2, 2017 in San Diego, CA, USA at the San Diego Convention Center**.

The WiMAX Forum is proud to be a supporting organization!

The WiMAX Forum will host **WiGRID 2017 - DistribuTECH**, a pre-conference session, on **Monday, January 30, 2017**. The event will focus specifically on supporting the Smart Energy community in deploying effective and affordable WiMAX networks to support their communication initiatives. Details concerning the pre-conference are being finalized, we will be certain to keep you informed.

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

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

• Capitalizing on the Advent of Cockpit Connectivity

Author: Anne Wainscott-Sargent

With Wi-Fi in the passenger cabin now commonplace for today's traveling public, the cockpit represents the next major aircraft domain for IP connectivity to make its mark. From real-time weather updates to flight planning and predictive maintenance, the business case for IP-driven cockpit connectivity is here. But the question of how long it will take for operational connectivity to become mainstream across commercial airline fleets is more difficult to answer.

Industry leaders from the world of commercial aviation, In-Flight Entertainment (IFE) and satcom weigh in on this question and others, highlighting both the challenges and opportunities for a fully connected aircraft. Underscoring many insights of these innovators are the critical issues of cybersecurity and the ongoing imperative to keep IP-enabled operational gains for pilot and crew separate from safety-of-flight applications.

To read the complete article, 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**, the newest member 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) focuses on key initiatives: AeroMACS Certification, AeroMACS PKI, 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. AWG members are also collaborating with **ICAO** Working Group S and Working Group I so that security policies produced in the group will serve as guidelines to other groups in the industry 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 working hard to develop 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. AWG will begin lab validation and full AeroMACS certification in 2017.

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. 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 November:

- [GAO Reviews FAA's NextGen Modernization Program](#)
- [Results from the latest study on the FAA's Next Generation Air Transportation System](#)
- [Carrier Network Virtualization in Palo Alto this December 2016](#)
- [Airport Operations and Ranking Reports - Using the Air Traffic Activity Data System \(ATADS\)](#)

- **Here's the FAA's New Caribbean Aviation Initiative**
- **General Electric Company (NYSE:GE) Sells Connecticut Headquarters for \$31.5 Million**
- **Iberdrola Honors Mitsubishi Hitachi Power Systems as Global Supplier of the Year**
- **Tech Giant Siemens is Now Working on Blockchain Microgrids**
- **Convergence India at Pragati Maidan in New Delhi - February 2017**
- **NextGen Flight 101**
- **DistribuTECH the Leading Annual Electric Power Transmission and Distribution Conference & Exhibition on January 2017**
- **Delivering a 5G Future**
- **SE2025 - Awards to Date - Federal Aviation Administration**
- **SESAR gathers Europe's brightest minds on aviation research**
- **Total Costs, Schedules, and Benefits of FAA's NextGen Transformational Programs**
- **Maritime network connectivity - all at sea?**
- **New Report Outlines Avionics Equipage Issues for NextGen**
- **EU funding accelerates UK airspace overhaul**
- **Capitalizing on the Advent of Cockpit Connectivity**
- **Japan ends September with nearly 160 mln mobile subscribers**
- **FAA releases National Airspace System Navigation Strategy**
- **International Mobile Technology Expo 2016**
- **FAA Administrator Focuses on the Caribbean**
- **Systems Architecture and Interfaces (SAI) Subcommittee**
- **Meet the Regulators: FAA Top Officials' View of the Industry**
- **Deals this week: Siemens, Hitachi Rail**
- **FAA Declares Steady Progress on NextGen ATC Modernization**
- **Ukrainian regulator extends wireless licences**
- **Developers Are Key to Unlocking SWIM's Full Potential**
- **IoT World Europe at the Dublin Convention Center on 21-22 November 2016**
- **Siemens Canada launches new brand claim: Ingenuity for life**
- **DECEA eyes a future of order and progress**
- **General Electric Plans to Merge Its Oil and Gas Division With Baker Hughes**
- **Federated Wireless to Begin Testing Environmental Sensing Capability in Norfolk, Virginia**
- **Accelleran, AirHop partner on SON small cells deployment**
- **WiMAX service now in all 75 districts**
- **Atlantic City International Airport to Become Center for Aviation Technologies**
- **Sequans Communications SA ADR (SQNS) Releases Earnings Results, Beats Expectations By \$0.02 EPS**

- **Wireless Technology Connects Internet to Things**
- **IATA: stronger partnerships needed to ensure air safety**
- **AfricaCom this November 2016 at Cape Town Convention Center**
- **UK airport capacity announcement: swift implementation & more needed**
- **SESAR DM to lead on datalink services**
- **GE Power sees stake in Indonesia's ambitious electricity program**
- **Honeywell weather on board technology wins Airbus innovation award**
- **October 2016 WiMAX Forum Monthly Newsletter**



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