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The header features a dark blue background with a glowing green and blue globe. The globe is overlaid with a network of white and blue lines representing connections. 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, and 'NEWSLETTER' is in a slightly smaller, white, sans-serif font below it.

# WiMAX FORUM<sup>®</sup> NEWSLETTER

JULY 2016

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## INTRODUCTION

Dear Respected Colleague,

The **WiMAX Forum** continues to work with its **member companies** to increase awareness of **WiMAX technology**. We plan to host, attend, and participate in important and well-received industry **events** to grow the market and address the needs of the WiMAX community.

Last month, **EUROCONTROL** published the factsheet for Aeronautical Mobile Airport Communication System (AeroMACS), the new-generation airport datalink for airlines, airport authorities, and air navigation service providers to stay connected at airports. To read the complete publication, please click on the following: **Aeronautical Mobile Airport Communication System (AeroMACS) Factsheet**.

On July 28-29, WiMAX Forum COO **Rich Hawkins** will participate in the **AEEC AeroMACS Working Group Meeting** in London, UK. The AeroMACS Working Group is developing ARINC Project Paper 766, Aeronautical Mobile Airport Communication System (AeroMACS) Transceiver and Aircraft Installation Standards per APIM 11-013A. Airborne Radio Unit (ARU) and Antenna Form, Fit, Function, and Interfaces will be defined. The AeroMACS Airborne Radio Unit (ARU) is capable of supporting Controller Pilot Data Link Communications (CPDLC), Airline Operational Control (AOC)/Aircraft Communications Addressing and Reporting System (ACARS) messaging, Electronic Flight Bag (EFB) applications, software uploads (data downloads, navigation database updates), and other data communications for safety and regularity of flight services.

In the coming months, the WiMAX Forum continues to be busy preparing for an exciting series of industry events that will feature AeroMACS. We will host an **AeroMACS** Summit, present, and exhibit at major aviation events around the globe to raise awareness about the technology. This year promises much progress for the AeroMACS market, which is derived from our efforts in developing certification and security as well as our continuation in hosting and participating in several industrial events. The WiMAX Forum will participate in the below events:

- **Wireless China Industry Summit 2016** on September 7-8 at the JW Marriott Beijing Central in Beijing, China. The WiMAX Forum will host AeroMACS Track on September 8.
- **ACI-NA/World Annual Conference & Exhibition 2016** on September 25-28 at the Palais des congrès de Montréal in Montreal, Canada. The WiMAX Forum will exhibit at the event.
- **61st Annual ATCA Conference & Exhibition 2016** on October 16-19 at the Gaylord National Resort and Convention Center in National Harbor, MD, USA. The WiMAX Forum will host **AeroMACS 2016 – National Harbor** summit on October 18.
- **Airport Exchange 2016** (ACI Europe) on November 17-19 at the Istanbul Congress Center in Istanbul, Turkey.

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.

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

We at the WiMAX Forum wish you a great rest of the month and we hope to see you at one of the upcoming events.

Best Regards,

WiMAX Forum

## EVENTS

In the following months, the WiMAX Forum will plan and attend events globally. We will 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 WiMAX Forum along with [ADCC](#) and [Siemens](#) will host a **half-day seminar on September 8** collocated with **Wireless China Industry Summit** at JW Marriott Beijing Central, P.R. China. Additionally, [Declan Byrne](#), WiMAX Forum President, will deliver a keynote address to the plenary on September 7. This is the third consecutive AeroMACS Track held by the WiMAX Forum, which has resulted in ADCC joining the Forum and deploying AeroMACS first at Chengdu Airport and now at Beijing Capital Airport. China remains an important market with us continuing to support ADCC and meet with the radio regulatory authorities to keep the market moving forward.

**The WiMAX Forum is proud to be a supporting organization and excited to host the AeroMACS Track!**

For more information, please visit: [AeroMACS Track at Wireless China Industry Summit](#).



Co-located with CTIA's Super Mobility, the **2016 Tower & Small Cell Summit (TSCS)** will cover the full range of technology, management and business issues the wireless infrastructure professionals confront. Understanding the technology is essential, and TSCS provides unmatched insight into how to generate new revenues, manage costs and maximize the value of your wireless infrastructure assets – technical, human and real estate. It will take place **on September 7-9, 2016 in Las Vegas, NV.**

**The WiMAX Forum is proud to be a supporting organization!**

For more information, please visit: [Tower & Small Cell Summit 2016](#).



The **BSS & OSS** session will focus on Operations Support Systems and Business Support Systems. Working with OSS and BSS always meant to adapt, change, adjust, improve, and upgrade. It means knowing exactly what is going on from end to end, including all network elements. All fixed and mobile parts make up the connected society. The network must be planned to function in the best possible way. It will take place **on September 20-21 at Windsor Marapendi, Rio de Janeiro, Brazil.**

**The WiMAX Forum is proud to be a supporting organization!**

For more information, please visit: [BSS & OSS 2016](#).



The WiMAX Forum and its member companies **Siemens** and **Telrad** will have **AeroMACS booths on the ACI-NA/World exhibition show floor on September 25-27** with more details on AeroMACS at Palais des Congrès de Montréal, Canada. Stop by to learn more about AeroMACS and the WiMAX Forum. Our priority for early AeroMACS deployments includes airports, and our return will bring

greater awareness (and consequent adoption) of AeroMACS by this important community.

**The WiMAX Forum is excited to exhibit at ACI-NA/World Annual Conference!**

For more information, please visit: [AeroMACS – Exhibition at 2016 ACI-NA/World Annual Conference](#).



**Internet of Things Security** is the first event of its kind to focus on the key security and privacy issues surrounding IoT and to address the most crucial challenges that inevitably arise from managing the data associated with the ever increasing amount of connected devices and appliances. It will take place on **October 17-19, 2016 at Hynes Convention Center, Boston, MA, USA**.

**The WiMAX Forum is proud to be a supporting organization!**

For more information, please visit: [IoT Security 2016](#).



The WiMAX Forum will host **AeroMACS 2016 – National Harbor on October 18** collocated with 61st ATCA Annual Conference at the Gaylord National Resort and Convention Center in National Harbor, MD, USA. This ATM event attracts key corporations and government decision-makers and provides a great opportunity for us to market the benefits of AeroMACS to airport attendees and other stakeholders. The WiMAX Forum, **Siemens**, and **Telrad** will have AeroMACS booths on the exhibition show floor, and the Aviation Working Group will also meet Face-to-Face on the margins of the ATCA event.

**The WiMAX Forum is proud to be a supporting organization and excited to host an AeroMACS Summit and exhibit at the 61st ATCA Annual Conference!**

For more information, please visit: [AeroMACS 2016 – National Harbor](#).

**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

- **AeroMACS in Demand with Presence at Aviation Events around the Globe**

*The WiMAX Forum to Host and Participate in Key Events in the Aviation Industry to Expand the Market*

The WiMAX Forum® is proud to announce an exciting line-up of four aviation-related events for the second half of the year that will expand the Aeronautical Mobile Airport Communications System (AeroMACS) market. Along with its member companies, the WiMAX Forum will present to broad yet targeted audiences to raise awareness about AeroMACS and share the latest developments for the technology, which include new deployments at airports, certification, security with PKI, and more.

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

- **SESAR AeroMACS Poster - AeroMACS the New Generation Airport Datalink for Airlines, Airport Authorities, and ANSPs**

*AeroMACS Key Benefits*

AeroMACS provides a standardized IP broadband mobile datalink--based on 4G technology--for safety and regularity of flight communication exchanges on the airport surface. AeroMACS is today the only globally standardized aviation technology designed to support simultaneously ATS, AOC, and airport authority critical communications.

To view the poster, please click [here](#).

- **AOT survey on ATM applications based on AeroMACS technology**

*EUROCONTROL AeroMACS Survey*

AeroMACS, the Aeronautical Mobile Airport Communication System, is the solution recommended by the International Civil Aviation Organisation (ICAO) for supporting airport surface communication exchanges with increased volumes of data exchange at busy airports.

The survey is addressed to different categories of stakeholders and the questions are specific to each category of stakeholders. The results of this survey will be presented to the relevant EUROCONTROL consultation groups (such as the CNS Infrastructure Team - CNS T and Airport Operations Team -

AOT) to advise the EUROCONTROL Agency on the appropriate way forward with respect to AeroMACS deployment.

To take the survey, 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](mailto:Membership@wimaxforum.org).

The WiMAX Forum would like to extend a special welcome to [Shinsei Corporation](#), the new 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) is focused on the following key projects: AeroMACS Certification, AeroMACS PKI, and the FCC Policy Petition. Certification Task Group members have now finalized a list of Interoperability Tests (IOT) and are near completion on Protocol Conformance Tests (PCT) to support AeroMACS Certification. The current plan is to begin lab validation and certification in late Q3 or early Q4 2016.

AWG members are 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. Additionally, the AWG is planning a PKI demonstration to highlight use cases and confirm the interoperability of AeroMACS PKI. 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, waiting for the outcome from the FCC on grandfathered systems to decide on next steps. 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:

- **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/Page/About/Working-Groups](http://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 July:**

- **WiMAX Forum to Host Third Annual AeroMACS Track at Wireless China Industry Summit**
- **Telrad Networks First to Receive AeroMACS Certification for Broadband Wireless in Aviation Industry**
- **David Bowen, SESAR JU's ATM chief, explains how Europe plans to fix the troublesome VDL Mode 2 datalink solution and outline an emerging performance-based vision for the future**
- **Digital Transformations Impacting The Ecosystem Of Flight**
- **New Siemens plant fully operational**
- **AeroMACS at Avionics for NextGen**
- **Huawei and General Electric partner on industrial IoT**
- **TNM launches customer care centre facilities**
- **Hitachi takes stake in Indian railway equipment maker**
- **Ofcom changes 900 MHz and 1800 MHz spectrum fee policy**
- **Spirent Landslide CORE Delivers Automated Live Network Testing for UQ**
- **SESAR Solutions Enabling Aviation Infrastructure – Extended Flight Plan**
- **AeroMACS Survey**
- **Twentieth Meeting of the Communications/Navigation and Surveillance Sub-Group (CNS SG/20)**
- **Honeywell SmartPath (Ground Based Augmentation System)**
- **Nepal's Ncell requests new spectrum**
- **Ukrainian regulator issues new ISP licences**
- **FCC Votes to Open Spectrum for 5G, Internet of Things**
- **US Federal Business Opportunity: Department of the Navy: Wireless Services**
- **BTRC buys tools to assess quality of mobile services**
- **PTA decides to resolve CMOs, WLL operators conflict**
- **Nineteenth SC-223 Plenary Meeting Calling Notice, Internet Protocol Suit (IPS) and AeroMACS**
- **New Siemens Business Development Unit To Include Blockchain Applications**
- **Stock With Momentum: YTL E-Solutions**
- **GE Aviation lands \$1B federal contract**
- **AeroMACS Track at the Wireless China Industry Summit 2016**
- **Tall story: Kyivstar founder owns Giraffe**

- **A new Internet Service Provider in Algeria soon**
- **Towerstream Receives Independent Appraisal on Earth Station and License in greater Miami**
- **NGMN expands 5G effort**
- **AeroMACS in Demand with Presence at Aviation Events around the Globe**
- **SESAR AeroMACS Poster – AeroMACS the New Generation Airport Datalink for Airlines, Airport Authorities and ANSPS**
- **SESAR 2020 Exploratory Research Gets Underway**
- **FAA to Replace Voice Communication with Text Between Air Traffic Controllers and Pilots**
- **NASA launches 5-year tech demo to improve air traffic flow at airports**
- **IoT alone is not justifiable for 5G – Huawei chief**
- **Richard Nottenburg Elected to Sequans' Board of Directors**
- **Anite to supply QoS equipment to Bangladesh regulator**
- **Islands of IoT devices must be connected – Alibaba**
- **June 2016 WiMAX Forum Monthly Newsletter**



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