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AUGUST 2016

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INTRODUCTION

Dear Respected Colleague,

While much of the world has been away enjoying summer holidays, we at the **WiMAX Forum** have been preparing to host, attend, and participate at key industry **events** for the remainder of 2016 and continuing to bring the highest value to the WiMAX community as the market share expands.

Last month, WiMAX Forum COO **Rich Hawkins** participated 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.

This month, a call for tenders has been issued by the SESAR JU, which includes completion of AeroMACS development. The Programme for SESAR 2020 is structured into three main research phases, beginning with Exploratory Research, then is further expanding within a Public-Private-Partnership (PPP) to conduct Industrial Research and Validation then further exploits the benefits of the PPP in Demonstrating at Large Scale the concepts and technologies in representative environments to firmly establish the performance benefits and risks. To access all tenders, please click on the following: **SESAR JU Call for Tenders**.

Next month, the WiMAX Forum along with its member companies will present to broad yet targeted audiences about AeroMACS at key aviation events and share the latest developments for the technology, which include new deployments at airports around the globe, certification, security with PKI, and more. 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 8 at 9:00AM-12:30PM, the WiMAX Forum along with member companies ADCC and Siemens will host the third annual AeroMACS Track at Wireless China Industry Summit 2016 at the JW Marriott Hotel Beijing Central in Beijing, China. The informational event is free to all Wireless China Industry Summit attendees and is designed to provide insights and developments for a broad range of critical issues related to the deployment of AeroMACS networks. In addition to the AeroMACS Track, **Declan Byrne**, the WiMAX Forum President, will also deliver a 20-minute keynote address on September 7 at 2:05PM-2:25PM.
- **ACI-NA/World Annual Conference & Exhibition 2016**: On September 25-28, the WiMAX Forum along with member companies **Siemens** and **Telrad Networks** will exhibit at the event, which will be held at the Palais des congrès de Montréal in Montreal, Canada. Additionally, WiMAX Forum President Declan Byrne will present "AeroMACS—A Licensed Wireless Broadband

Technology—Improving the Safety, Capacity and Efficiency of the Airport Surface" at the ACI-NA Solutions Showcase on Monday, September 26 at 12:40PM–1:00PM.

- **Avionics for NextGen 2016**: On September 28, the WiMAX Forum President Declan Byrne and industry experts will participate in a panel discussion on FAA's effort to position AeroMACS as an enterprise solution to bring wireless broadband connectivity to airports; AeroMACS is already a large part of Europe's SESAR 2020 project. The event will be held on September 28-29 at the Westfields Marriott in Washington Dulles.

In the coming months, the WiMAX Forum continues to be busy preparing for an exciting series of industry events that will feature AeroMACS. The WiMAX Forum will participate in the below events:

- **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 participate in the ATCA exhibition and host **AeroMACS 2016 – National Harbor** summit on October 18. To read the latest press release about this event, please click [here](#).

- **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.

Enjoy the rest of summer, and we hope to see you at one of our 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. On Monday, **September 26**, WiMAX Forum President Declan Byrne will present "AeroMACS—A Licensed Wireless Broadband Technology—Improving the Safety, Capacity and Efficiency of the Airport Surface" at the ACI-NA Solutions Showcase. 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](#).

Supported By:



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

• **SESAR Joint Undertaking Call for Tenders**

SESAR 2020 Multi-annual Work Programme

A call for tenders has been issued by the SESAR JU, and it includes completion of AeroMACS development. EUROCONTROL is also publishing call for tenders related to the SESAR Programme. Tenders must be presented in the requested format and include all the requested information and documents. Any tender received after the deadline will not be examined.

AeroMACS is one of the three new FCI data links and its implementation will provide efficient and high bandwidth communication capabilities for critical communications in the airport surface using spectrum allocated to aviation only and supporting mobile and fixed users.

Deadlines are approaching fast. To access all tenders and details, 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.

The deadline to take the survey is **September 2, 2016**. To access 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.

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) is focused on the following key projects: AeroMACS Certification, AeroMACS PKI, and the FCC Policy Petition. Certification Task Group members completed lists of Interoperability Tests (IOT) and Protocol Conformance Tests (PCT) to support AeroMACS Certification. Powertech Inc., the WiMAX Forum AeroMACS Designated Certification Laboratory, is now validating the setup and tests, and members are developing the specifications associated with IOT and PCT. AWG is on track to begin lab validation and full AeroMACS 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 with the near finalization of certificate profiles. 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. 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 August:

- **FAA Contract Opportunity: Purchase of AeroMACS Technology Equipment for Field Trial**
- **Utilities in Search of Smart Grid Spectrum Look to Narrowband as Next Frontier**
- **AeroMACS Featured at the ATCA Annual Conference: WiMAX Forum to Host Seminar and Exhibit**
- **Call for Tenders: SESAR 2020 - Completion of AeroMACS Development - Annex 6 SESAR 2020 Multi-annual Work Programme**

- **ICAO Flight Plan Mandate Pushed To January 2017**
- **Air traffic grows strongly despite the diversified challenges**
- **Internet of Things North America Dates Announced**
- **Pakistan adds 2 mln broadband users in July**
- **China introduces new navigation system to relieve airspace congestion**
- **Nepal Telecom expands microwave radio to every district**
- **WI-NET enhances its presence in Andalusia with a new center in Córdoba**
- **WInnForum Releases Two New Security Related Technical Specifications for the 3550-3700 MHz Band**
- **Call for Tenders SESAR Programme**
- **Air travel is about to get a whole lot safer, FAA says**
- **Africa Set to Become One of the Leading Outsourcing Destinations for IT services, Says Technavio**
- **FAA Picks Embry-Riddle To Update Decades Old US Air Traffic Control System**
- **FAA Launches NextGen Benefits at KSLC**
- **Detroit Metropolitan Airport to get FAA NextGen improvements to boost on-time flights**
- **FAA proposes NextGen improvements in Cleveland**
- **Court Says FCC Can't Stop States from Blocking City Broadband Efforts**
- **This is how you can be a successful ISP in Pakistan or anywhere in the world**
- **It's Time to Embrace a Digital Future**
- **Antiquated air traffic control systems are becoming a serious threat to safety**
- **Mandate compliance dates in the U.S. and Europe are fast approaching, so operators should look to formulate their roadmaps to compliance in order to prevent losing access to airspace**
- **AeroMACS 2016 - National Harbor on October 18 Featuring Key Aviation Experts**
- **Indonesia set for FAA Category 1 upgrade**
- **Claro completes Olo WiMAX takeover**
- **Hitachi's VP of global IoT marketing talks public safety, blending data and saving lives**
- **Vodacom competition equips schools**
- **Google seeks FCC approval for 3.5GHz tests in 24 locations**
- **KDDI reports strong revenue and profit growth in fiscal Q1**
- **Telecom Business Alert – 3.5 GHz Band Final Order**
- **AeroMACS Exhibition at 2016 ACI-NA/World Annual Conference**
- **World Hangs Up on Venezuela as Phone Companies Can't Pay**
- **Etihad Atheeb, ZTE sign backbone upgrade agreement**
- **Honeywell brings GX test bed to demo system to Dubai operators**
- **Siemens ups guidance on strong energy ops growth**
- **Why we should care about mobile tower business**
- **Hitachi-GE to launch nuclear energy course in Malaysia**

- **Momentum builds for first TGAIS in Africa**
- **Amendment of the Commission's Rules With Regard to Commercial Operations in the 3550-3650 MHz Band**
- **IATA joins EUROCAE to deliver safe, secure, sustainable goals**
- **Working with wireless technology**
- **Digital technologies: Changing the way we live**
- **IoT West in Las Vegas Nevada on November 2016**
- **Digital Transformations Impacting The Ecosystem Of Flight**
- **Mobile subscribers drop by 2.34 million**
- **Czech cabinet approves investment deal with GE Aviation**
- **Siemens, Cuba Sign Energy Agreement**
- **July 2016 WiMAX Forum Monthly Newsletter**



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