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## INTRODUCTION

Dear Respected Colleague,

With summer holidays approaching, our activities are kicking into high gear! The **WiMAX Forum**<sup>®</sup> with the participation of our **Board of Directors**, **Working Group Representatives**, and **Member Companies** are producing important work to advance the Aeronautical Mobile Airport Communications System (**AeroMACS**), **WiGRID**<sup>™</sup>, and the **WiMAX**<sup>™</sup> technology.

The WiMAX Forum would like to start by extending a very warm welcome to this month's new member, **Comodo Group Inc.** As a company that has been built upon the very foundation of trust, **Comodo** believes that every single digital transaction must have a built-in layer of trust and security. Thousands of companies and organizations rely on Comodo's technology to authenticate, validate and secure their most precious asset – information - and to combat constant malware threats and cyberattacks that are creating havoc on a global scale. If you would like more information regarding the WiMAX Forum Membership benefits, please email [Membership@WiMAXForum.org](mailto:Membership@WiMAXForum.org).

In May, a new WiMAX White Paper was published by **Siemens**. The paper describes the capabilities of WiMAX that have made it ideal for a variety of network applications. There is a large ecosystem of interoperable equipment available based on the IEEE 802.16e standard, which makes WiMAX technology an attractive solution compared to other proprietary best-effort radio systems that other manufacturers offer. To read the complete white paper, please click at the following link: [Building a Wireless Network on WiMAX](#).

This month, the WiMAX Forum **Smart Energy Working Group (SEWG)** participants, manufacturers, and utilities are discussing how Narrowband, the nationwide Upper 700 MHz A Block spectrum band in the form of two narrow, 1-megahertz channels, offers a unique solution to help the Smart Energy community meet their longstanding communication needs. The discussions include the value proposition, profile development, certification, spectrum policy, security, collaboration with IEEE, solutions available to the market, and more. If you would like more information about these discussions, please email [info@WiMAXForum.org](mailto:info@WiMAXForum.org).

On June 14, the Federal Communications Commission (FCC) implemented allocation changes from the World Radiocommunication Conference held in Geneva on 2012 and updated its service rules. The Commission took this action to conform its rules, to the extent practical, to the decisions that the international community made at WRC-12. This action was taken to promote the advancement of new and expanded services and provide significant benefits to the American public. Among its service rules, it allocated the 5000-5091 MHz band to the aeronautical mobile (route) service (AM(R)S) on a primary basis for Federal and non-Federal use. AM(R)S use of the 5000-5030 MHz band extends the tuning range for the recently-established Aeronautical Mobile Airport Communications System (AeroMACS) that will support surface applications at airports. To review the complete Report and Order, please click [here](#).

The WiMAX Forum is waiting for the FCC to issue a Notice of Proposed Rulemaking (NPRM) after submitting its Service Rule petition on March for the use of AeroMACS Spectrum in the United States. With the increasing need for secure wireless communication on the airport surface, these service rules are crucial to promoting the safety and regularity of flight once AeroMACS is widely deployed at airports within the United States. This Service Rule petition will set the ground rules for exploitation of the spectrum for the next 20 years. To read the full submission, please click [here](#).

To foster a prosperous environment and future for the WiMAX ecosystem, the **WiMAX Forum** with the participation of our **Member Companies** will host, attend, and participate globally with speakers in key industry events. Through our events, speaking opportunities, seminars, and webinars, we are reaching out to diverse audiences in the WiMAX community.

This coming September, the WiMAX Forum will participate at the **ACI-NA Conference** on September 17-20, 2017 in Fort Worth, Texas. The WiMAX Forum will exhibit AeroMACS at **Booth 346**. Come learn more about **AeroMACS at ACI-NA Exhibition**, and we would be happy to tell you all about AeroMACS solutions and developments.

We will continue to increase awareness of, educate, and meet with industry leaders worldwide about implementing and developing WiMAX, AeroMACS, and WiGRID networks in ways that will best serve each and all stakeholders. Our focus has been to share key lessons, concrete knowledge, and work together for the benefit of the industry. For more information about our events, please visit: **WiMAX Forum Events**

Please reach out to us if you have any questions or comments. We wish you all a great month and we hope to see you soon.

Best Regards,

WiMAX Forum

## INDUSTRY SPOTLIGHT

The WiMAX Forum maintains a bustling schedule of public appearances, white paper publications, webinars, and press releases on behalf of our industry. Below you can find the latest communications and most relevant activities.

### • **WRC-12 AeroMACS Implementation Report and Order**

Agency: Federal Communications Commission

On April 23, 2015, the Commission adopted a Notice of Proposed Rulemaking (WRC-12 NPRM) in this proceeding, 80 FR 38315, July 2, 2015. In this Report and Order (WRC-12 R&O), the Commission amended the Table of Frequency Allocations (Allocation Table) in § 2.106 of its rules and a number of related service rules to implement certain radio frequency (RF) allocation decisions from the Final Acts of the World Radiocommunication Conference (Geneva, 2012) (WRC-12 Final Acts).

**To read the complete Report and Order, please click [here](#).**

### • **White Paper: Building a Wireless Network on WiMAX**

By: Mike Dalton at **Siemens**

WiMAX is not Wi-Fi and it is not a cellular network, but it has important characteristics of both. WiMAX uses the IEEE 802.16e standard, so it is not a proprietary system. For the right applications, it offers many advantages without the

drawbacks of the more common and more heavily deployed alternatives. Siemens can show how this versatile and under utilized wireless networking technology can be a practical and economical approach for your broadband coverage applications.

To read the complete white paper, please click [here](#).

## EVENTS

In the coming months, the WiMAX Forum will host, participate, attend, and support events globally. We continue our efforts to bring you quality conferences 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.

### Featured Event:

 <p><b>WIMAX FORUM®</b> <b>AeroMACS</b> @ ACI-NA/WORLD 2017 EXHIBITION FORT WORTH, TX   SEPT 17 - 20</p>	<p><b>AeroMACS Booth 346</b> September 17-20, 2017 Fort Worth, Texas For more information, please visit: <b>AeroMACS – Exhibition at ACI-NA</b></p>
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### Upcoming Events:

 <p><b>MOBILE™</b> WORLD CONGRESS SHANGHAI 世界移动大会·上海 28 JUN - 1 JUL 2017 • 2017年6月28日至7月1日</p>	<p>28 June - 1 July, 2017 Shanghai, China For more information, please visit: <b>Mobile World Congress Shanghai</b></p>
 <p><b>INDUSTRY OF THINGS WORLD ASIA</b></p>	<p>July 03-04, 2017 Singapore, Malaysia For more information, please visit: <b>Industry of Things World Asia</b></p>
 <p><b>Telematics India 2017</b> 17-18 August, The Westin Pune, Maharashtra</p>	<p>August 17-18, 2017 Pune, India For more information, please visit: <b>Telematics India</b></p>

	<p>August 22-23, 2017 Rio de Janeiro, Brazil For more information, please visit: <a href="#">BSS&amp;OSS Latin America</a></p>
	<p>August 22-23, 2017 Rio de Janeiro, Brazil For more information, please visit: <a href="#">Revenue Assurance &amp; Fraud Prevention Latin America</a></p>
	<p>August 22-23, 2017 Rio de Janeiro, Brazil For more information, please visit: <a href="#">Customer Experience Management, Big Data &amp; Analytics</a></p>
	<p>September 6-7, 2017 Lima, Peru For more information, please visit: <a href="#">Telecom Forum Peru</a></p>
	<p>September 6-8, 2017 Chicago, Illinois For more information, please visit: <a href="#">Smart Cities Summit</a></p>
	<p>September 18-19, 2017 Berlin, Germany For more information, please visit: <a href="#">Industry of Things World</a></p>

**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 year. 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 Membership** provides a wide range of **benefits and services** that promote growth and innovation of AeroMACS, WiGRID, and WiMAX technology.

**The WiMAX Forum would like to extend a special welcome to the new members for 2017:**

- **Austro Control**
- **Comodo Group Inc.**
- **JEZETEK**

Only WiMAX Forum Members can **certify** products to guarantee interoperability and standard compliance for AeroMACS, WiGRID, and WiMAX; secure networks using **Public Key Infrastructure (PKI)** certificates; develop technical specifications; influence favorable regulatory environments; and contribute to the growth of the industry through standards development that satisfy the market needs, among other advantages.

The WiMAX Forum is committed to delivering the value necessary for our members to get the most from their membership, and we are always engaging with individual members to discuss how we can better serve them. If you are interested in speaking with our leadership team on our specific initiatives or have any questions, please send a message to [Membership@wimaxforum.org](mailto:Membership@wimaxforum.org).

**The WiMAX Forum is the best place to access, leverage, and influence the growth and development of the AeroMACS, WiGRID, and WiMAX Technology. So be a leader and step up to get involved today!**

## WORKING GROUPS

The **WiMAX Forum Working Groups** are the key to the development of WiMAX technology, currently focusing on **AeroMACS** and **Smart Energy**.

The Aviation Working Group (AWG) drives technical activity in three areas: AeroMACS Public Key Infrastructure (PKI), Product Certification for AeroMACS, and the FCC Policy Petition. It is a crucial time and a great opportunity to influence and leverage these activities so if you are interested in participating in our **Working Groups**, please contact us at [info@WiMAXForum.org](mailto:info@WiMAXForum.org).

With the assignment of Object Identifier (OID) designations to support the AeroMACS PKI Certificate profile, the WiMAX Forum and International Civil Aviation Organization (ICAO) are developing a PKI commercial agreement. We will continue to collaborate with ICAO so that the AeroMACS PKI Certificate Policy will:

- Support and align with industry requirements.
- Serve as the governing document and basis for AeroMACS PKI.
- Act as a PKI model for other Aviation technologies.

The AWG is completing an AeroMACS PKI proof of concept trial to confirm the PKI Certificate Profiles and Policy as a last step to commercializing AeroMACS PKI.

The AWG Certification Task Group is developing test specifications and procedures for Protocol Conformance Tests (PCT) and is in the process of validating these procedures in the WiMAX Forum AeroMACS Designated Certification Laboratory. Interoperability Tests (IOT) to support Certification for AeroMACS will be next as additional products enter the lab for Radio Conformance Testing (RCT). When all validation is complete, the Forum will offer full AeroMACS product certification in 2017.

Regarding the FCC Policy Petition, the Forum is waiting for the FCC to issue a Notice of Proposed Rulemaking (NPRM) after submitting its Service Rule petition in March 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. To read more, please visit: [The WiMAX Forum Files FCC Petition for AeroMACS Service Rules](#).

The Smart Energy Working Group (SEWG) is reaching out to utilities and vendors to research the desires and challenges for using the narrowband spectrum as IEEE develops the 802.16s standard. Members continue to monitor the activity around the FCC's Citizens Broadband Radio Service (CBRS) rules that regulate the 3.5 GHz band and to form a viable shared spectrum ecosystem in the United States.

The WiMAX Forum organizes its technical activities through a number of Working Groups that produce technical requirements, develop technical specifications, or advise the forum. Working Groups are chartered by the WiMAX Forum to bring together content experts from member companies. These experts contribute to and harmonize documents and specifications and perform other tasks that the WiMAX Forum has determined to be necessary or useful. Technical Steering Committee coordinates all the Working Groups, which 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*

You can learn more about the Working Group activities by visiting the member's workspace area to view the outcomes of recent Working Group sessions or join groups to receive emails related to that group's activities. 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).

**Working Group activity is integral to the success of the Forum, and your participation is important to the WiMAX community!**

## 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 June:**

- **DSNA, ENAV, Leonardo and Thales Strengthen their Cooperation for Coflight**
- **CTIA lobbies FCC in favor of reforms for 3.5 GHz**
- **Pakistan tops 44 million broadband customers in May**
- **Taking a stake in ensuring ATM efficiency**
- **Internet Of Things (IoT): 5 Essential Ways Every Company Should Use It**
- **China's VosCom to take over Bahamas WiMAX**
- **This week Mobile World Congress Shanghai with 15% Discount on Registration**
- **The Wireless Innovation Forum Releases Second Version of Essential Specification for U.S. CBRS Band**
- **IAA Chief to become next Eurocontrol Director General**
- **FCC WRC-12 AeroMACS Implementation Report and Order**
- **Telrad Networks Completes its Initial Public Offering on the Tel-Aviv Stock Exchange**
- **Air Traffic Management Modernisation Efforts Taken to The Next Level**
- **Editor's Corner—Wireless must get spectrum sharing right with 3.5 GHz**
- **Firms see big bucks in upgrade of U.S. air traffic control system**
- **Mobile World Congress Shanghai this Month - 15% Discount on Registration**
- **What future does European aviation face?**
- **Democrats introduce legislation to stabilize FAA funding**
- **Pakistan tops 43 million broadband customers in April**
- **Analyst Angle: CBRS and its neighbors**
- **Will to Change**
- **China issues plan to use 3300-3600 MHz, 4800-5000 MHz for 5G**
- **Next Generation Optical Networking this June in Nice**
- **Oman's mobile phone subscriber base crosses 7 million**
- **Wireless Internet Service Providers Association Urges FCC to Finalize Citizens' Broadband Radio Rules**
- **GE, Baker Hughes announce executive leadership team for combined co.**
- **Trump Endorses Controversial U.S. Air-Traffic Spinoff Plan (1)**
- **Telecom Namibia launches services in Zambezi region**
- **FCC Should Maintain Consistent Spectrum Rules**
- **FAA's Airport Grant Program Ensures Safe and Efficient Airports Across the Country**
- **Andean Telecom Forum 4th edition this week in Bogotá, Colombia**
- **Modernising Europe's skies: are we there yet?**
- **Privatizing air traffic control**

- [Africa requires advanced technology to improve civil aviation](#)
- [Wireless Innovation Forum Launches Request for Proposals for Accreditation for CBRS Root of Trust Operator Candidates](#)
- [The Changing Landscape of European Business Aviation](#)
- [May 2017 WiMAX Forum Monthly Newsletter](#)



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