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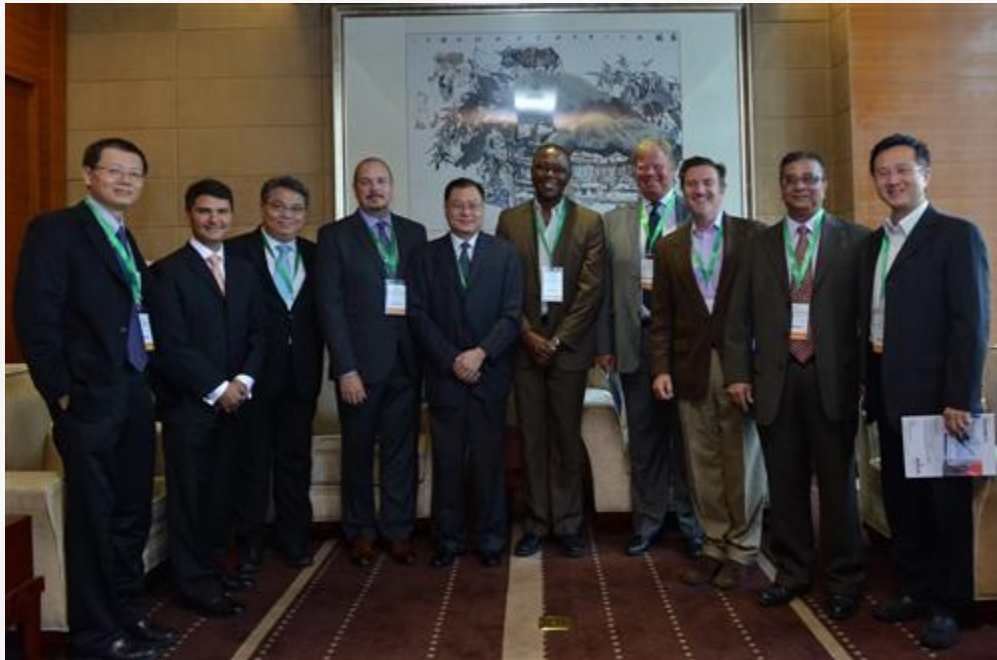## INTRODUCTION

Dear WiMAX Community,

September has been packed with many exciting events, and we'll spend the coming month of October participating in Aviation-related ATCA and AEEC conferences. During the following month, we'll be focusing on our three large WiMAX Summits.

At a keynote address at 4G World and two other events in Taiwan, **Dr. Mo Shakouri**, WiMAX Forum Chairman, presented on how WiMAX technology is flourishing in Taiwan. According to ITRI IEK, it has grown to 2 million users, with a WiMAX CPE output of NT $41.6 billion (approximately USD$1.4 billion) from 2006 to 2014 (forecast). Regulatory uncertainty is a major concern for operator growth and investment.

Shakouri also presented a summary of a white paper, *"WiMAX Advanced: Deployment Scenarios Based on Input from WiMAX Operators and Vendors"* – on the topic of WiMAX and WiMAX Advanced co-existence and/or transition, which you can read **here**.

Thank you to all for their contributions and collaboration to achieve this milestone for the WiMAX Advanced Initiative, especially **SPWG** members who drove this project to completion.

At the **Wireless China Summit** in Beijing, the WiMAX Forum lead a successful AeroMACS Track, recognizing China's initiative and trial deployments of WiMAX technology on the airport surface.

In the coming months, the WiMAX Forum hopes to deepen its continual involvement with the Chinese Aviation industry and more specifically the Civil Aviation Authority of China with the end goal of interoperability.

Thank you to the **AeroMACS Track Speakers** from the following companies:

Aviation Data Communication Corporation (ADCC)	**Honeywell**
Civil Aviation Administration of China	**Selex ES**
EUROCONTROL	**Siemens**
Gemtek Technology	

The WiMAX Forum is looking forward to another great Fall event season. Here is the summary of events that we are hosting and/or participating during the coming months:

• **59th ATCA Annual Conference and Exposition** on September 28 - October 2, 2014 at the National Harbor, Maryland. WiMAX Forum President Declan Byrne will present on September 30 at 11:00 am at the ATCA Annual Theatre.

• **AEEC Systems Architecture and Interfaces (SAI)** meeting being held on October 20-21, 2014 at the **EUROCONTROL Headquarters** in Brussels, Belgium. WiMAX Forum President Declan Byrne will present on October 21.

• **Broadband World Forum 2014** on October 21-23, 2014 at the RAI Exhibition & Convention Centre, Amsterdam, Netherlands. WiMAX Forum Chairman Dr. Mo Shakouri will moderate the Mobile Broadband panel on October 21 at 13:40-15:30.

• **WiMAX Oil & Gas 2014** on November 5, 2014. WiMAX Oil & Gas 2014 will be a pre-conference session at **OilComm** at the George R. Convention Center in Houston, TX.

• **WiMAX Africa 2014** on November 10, 2014. WiMAX Africa 2014 will be a pre-conference session at Informa Telecom & Media's **AfricaCom** at the DoubleTree Cape Town – Upper Eastside in Cape Town, South Africa.

• **WiMAX Aviation 2014 - Sendai** on November 11-12, 2014 in Sendai, Japan. We will hold an AeroMACS field-trial tour of the **ENRI lab in Sendai Airport** on the afternoon of November 12th. The meeting will also be collocated with ICAO WG-S Meeting on November 13-14.

Our 2015 renewal cycle is just around the corner. Members should expect to see communications starting next week. We are initiating our annual renewal earlier this year than we have in the past as we want to give our members 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 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 September and a prosperous October.

Best Regards,

WiMAX Forum

EVENTS

In September, the WiMAX Forum continues to stay busy planning and attending events. The WiMAX Forum team is looking forward to seeing you at our events this year. The following is the summary of upcoming events:

The **ATCA 59th Annual Conference and Exposition** takes an in-depth look at the future of air traffic control. It will take place on **September 28-October 1, 2014 in National Harbor, Maryland, USA**. As ATC/ATM industry thought leaders, ATCA continues to make its annual conference the premier forum for aviation professionals. The Conference is three days of presentations, seminars, networking opportunities, and exhibition with the participation of internationally recognized experts in the ATC/ATM industry.

The WiMAX Forum will be at ATCA 59th Annual Conference!

WiMAX Forum President **Declan Byrne** will speak about **"AeroMACS the Next Generation Standard in Air Traffic Management"**. His presentation will occur on **Tuesday, September 30, 2014 at 11:00 a.m. – 11:45 a.m. on ATCA Annual Presentation Theatre.**

For more information about this event, please visit: **ATCA 59th Annual Conference**.

Broadband World Forum, on **21-23 October 2014 at the RAI Exhibition & Convention Centre Amsterdam, The Netherlands** is one of the world's largest telecoms, media & technology events with over 7,800 senior executives from across the globe converging on Amsterdam every year to identify the Next Big Thing.

The WiMAX Forum will at the Broadband World Forum 2014!

WiMAX Forum Chairman **Dr. Mo Shakouri** will moderate the **"Mobile Broadband: Advancing LTE Networks towards 5G"** panel. It will occur on **Tuesday, October 21, 2014 at 13:40 – 15:30**.

For more information about this event and to receive a **15%** discount on registration, please visit: **Broadband World Forum 2014**.

WiMAX Oil & Gas 2014 will be a pre-conference session at OilComm on Wednesday, November 5th, 2014 at the Hilton Americas in Houston, TX. The event will focus specifically on supporting the Oil & Gas community in deploying effective and affordable WiMAX networks to support their communication initiatives.

All operators and vendors are invited to this event to meet, network and discuss ideas with the goal of fostering a prosperous environment and future for the WiMAX Oil & Gas ecosystem. The event will highlight the opportunities, challenges and strategies involved in operating a profitable WiMAX network.

This event is constructed specifically to allow the participants to network, share key lessons and work together for the benefit of the industry. Our goal is for attendees to gain concrete knowledge that will help them build profitable WiMAX businesses.

WiMAX Oil & Gas 2014 will be an interactive working event. Participation in this event is free to the attendees of the OilComm Full Conference Program. WiMAX Oil & Gas 2014 is open to all participants of the WiMAX ecosystem, and membership in the WiMAX Forum is not a requirement to attend.

For more information and to receive a **10%** discount on registration, please visit: **WiMAX Oil & Gas 2014**.

For questions about this event, please contact: Alessandra Rocha at **Alessandra.Rocha@WiMAXForum.org**.

WiMAX Africa 2014 will be a pre-conference session at Informa Telecom & Media's AfricaCom on Monday, November 10, 2014 at the DoubleTree Cape Town – Upper Eastside in Cape Town, South Africa. This event will focus specifically on supporting the African operator community in developing and managing profitable growth of WiMAX network deployments.

WiMAX Africa 2014 is an event for all participants—both operators and vendors—to meet, exchange ideas, and develop business and cooperative relationships. The event will highlight the opportunities, challenges, and strategies involved in operating a lucrative WiMAX network in Africa.

The African WiMAX community currently faces a host of challenges in procuring devices, securing funding for network development, and optimizing the migration or co-existence of WiMAX and TD-LTE networks. This event is constructed to allow these operators to network, share key lessons, and work together for the benefit of the industry. Our goal is for attending operators to gain concrete knowledge that will help them build profitable WiMAX businesses.

WiMAX Africa 2014 will be an interactive working event. **There is no registration fee**, and this event is free. The event is open to all participants of the WiMAX ecosystem, and membership in the WiMAX Forum is not a requirement to attend.

For more information and registration please visit: **WiMAX Africa 2014**.

If you have questions regarding this event and visa invitation letter, please contact Sophia Chang, WiMAX Forum Project Manager, at **Sophia.Chang@WiMAXForum.org**.

The WiMAX Forum is pleased to announce the first Aviation Event in Sendai. **WiMAX Aviation 2014 - Sendai** will be held at **The Westin Sendai** on November 11-12. The WiMAX Forum will have an AeroMACS field-trial tour of the ENRI lab in the Sendai Airport in the afternoon on November 12. The meeting will also be collocated with ICAO WG-S Meeting on November 13-14. This event will focus specifically on supporting the global Aviation Community in managing profitable development and growth of their AeroMACS networks.

WiMAX Aviation 2014 - Sendai is an event for all participants to meet, exchange ideas, and develop business and cooperative relationships. The event will highlight the opportunities, challenges, and strategies involved in operating efficient AeroMACS networks.

This event is constructed to allow the global Aviation Community to network, share key lessons, and collaborate for the benefit of the industry. Our goal is for attending participants to gain concrete knowledge that will help them build best-in-class AeroMACS networks.

AeroMACS Field-Trial Tour of the ENRI Lab in the Sendai Airport

On November 12, there will be an AeroMACS field-trial tour of the ENRI lab in the Sendai Airport from 2:30 pm to 4:30 pm to observe active projects, construction, and/or operations at sites with a local host. Transportation between the Westin Sendai and the tour site will be provided.

The number of participants in the tour is limited so please register soon to guarantee your attendance and indicate on your registration if you plan to join the tour.

Registration is required for this event. For additional information and registration please visit: **WiMAX Aviation 2014 - Sendai**.

For any questions regarding this event and/or to request a visa invitation letter, please contact Alessandra Rocha at **Alessandra.Rocha@WiMAXForum.org**.

Supported By:

Sponsored 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.

Sponsorship opportunities include:

- Media Sponsorship *(WiMAX Forum Membership **NOT** Required)*
- Silver Sponsorship *(WiMAX Forum Membership **NOT** Required)*
- Gold Sponsorship *(WiMAX Forum Membership **NOT** Required)*
- Platinum Sponsorship *(WiMAX Forum Members Only)*
- Diamond Sponsorship *(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 2014. 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:

- **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**
- **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 contact Kailey Phillips at **Kailey.Phillips@wimaxforum.org**; +1-703-407-1643.

INDUSTRY SPOTLIGHT

● **WiMAX Advanced: Deployment Scenarios Based on Input from WiMAX Operators and Vendors**
By the WiMAX Forum

In a new white paper, recognizing service providers' need for flexibility to manage an ever-increasing demand for broadband data, the WiMAX Forum embraced a network evolution path to accommodate harmonization and coexistence across multiple broadband wireless access technologies within the

WiMAX Advanced network. The acquisition and merger of several operators around the globe provide the opportunity for network operators for inherent multi-technology networks. These operators need vendor support to retain as many elements as possible from their current deployments, including their tower sites, RAN, backhaul, core networks, provisioning, and billing systems. Many of these operators also need regulatory provisions to allow them using their existing spectrum for the new networks and services without any restrictions on their spectrum licenses. Governments in many countries have allocated the spectrum for a specific wireless technology or a specific service (say nomadic, fixed, or mobile services), and the re-assigning procedure normally requires significant effort and cost.

WiMAX Advanced provides a path for existing WiMAX operators to benefit from coexistence of WiMAX and other IMT-2000/IMT Advanced technologies and leveraging the economies of scale associated with other ecosystems.

This paper provides deployment options to the existing WiMAX operators based on the results of a survey conducted by the WiMAX Forum across its key members in the first quarter of 2014. Three common deployment (co-existence) scenarios are discussed and evaluated, and seemingly adequate spectrums and availability of multimode terminals play key roles in facilitating successful deployments and operations.

If you are interested in reading the full white paper, please **click here**.

WORKING GROUPS

To advance the **Aviation** initiative, as a common Security standard is becoming increasingly important to the Aviation Community, AWG developed AeroMACS X.509 Certificate Use Cases. Its PKI task group is developing AeroMACS x.509 Certificate Profiles and Policies. In 2015, AWG will develop a Network Reference model and offer AeroMACS certification.

With comments and reply comments submitted in response to the recent FCC NPRM related spectrum in the 3.5 GHz band, SEWG moves forward with a spectrum plan for the **WiGRID** Initiative. Regarding other Smart Energy initiatives, **SEWG** members further develop the Oil & Gas and Railroad Initiatives by participating in industry-related events like OilComm and AAR Wireless Communications Committee meeting to present use cases and applications of the technology.

The WiMAX Forum with the support of the SPWG published a white paper called "WiMAX Advanced: Deployment Scenarios Based on Input from WiMAX Operators and Vendors" to define common scenarios and provide recommendations for WiMAX and WiMAX Advanced co-existence and/or transition to further the **WiMAX Advanced** initiative. To read the white paper, please click **here**.

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 - *Technical*
- **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**. Or if you want to take an active role in one or more of the Working Groups, you can use the group chair link on that same page to contact the Chairman of the group and to see how you can help.

To view the most up-to-date information on our Working Groups, please visit **www.wimaxforum.org/about/working-groups**.

Your participation is important to the WiMAX community!

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.

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**

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 September:

- **WiMAX Advanced: Deployment Scenarios Based on Input from WiMAX Operators and Vendors**
- **Getting on board with wireless**
- **Broadband World Forum 2014 in a Month**
- **Enforta starts services for Rosselkhozbank**
- **ATCA 59th Annual Conference**

- **Menatelecom boosts fibre optic network**
- **WiMAX Oil & Gas 2014**
- **BSNL WiMax plans Unlimited for Home / Business**
- **Peoplenet starts promotion with router**
- **Key broadband market boost for customers**
- **Workshop kick starts SESAR 2020 Civil RPAS R&D Definition Phase**
- **Congresswoman Sheila Jackson Lee announces $10,000,000 grant for Houston**
- **Enforta expands network in Rostov**
- **LeadFerret Releases a Directory of WiMAX Professionals**
- **4G360 Webinar Partner**
- **Taxibeat partners with Olo for free on-board WiFi**
- **TCA Wireless Blog: The Future of WiMAX**
- **WiMAX Africa 2014**
- **Qubee steps up their game with refurbished packages!**
- **WiMAX Aviation 2014 - Sendai**
- **Central America catch-up**
- **Enforta starts services for Blagoveshchensk supermarkets**
- **New DAS Ultra Wideband Indoor Antenna**
- **Wireless China Industry Summit 2014**
- **EUTC 2014**
- **Beyond GPS: The future of location tech will change how you use your smartphone**
- **Westermo introduces Layer 2 industrial Ethernet switch with 8 PoE/PoE+ ports**
- **Call for expressions of interest to become candidate member of the SESAR Joint Undertaking - SESAR Research and Innovation Programme 2020**
- **Enabling a New Future for Cloud Computing**
- **4G World Keynote Session**
- **Enforta starts services for jewelry chain**
- **ATCA 59th Annual Conference**
- **Enforta connects regional branch of ministry**
- **Hitachi CTA Accelerates Telco Cloud MME/SGSN Offering With VMware**
- **Your Good Access Of EU Version 3G 4G WiMAX GPS VHF UHF WiFi Signal Jammer**
- **UK Mobile Operators Cleared for 3G and 4G Power Boost at 1800MHz**
- **August 2014 WiMAX Forum Monthly Newsletter**

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