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# INTRODUCTION

Dear WiMAX Community,

This month, the WiMAX Forum hosted **WiMAX Aviation 2014 - Brussels**, held at **EUROCONTROL** Headquarters in Brussels, Belgium. The event was a great success, with dozens of attendees from around the world who joined to discuss the future outlook of airport communications. The event illustrated the tremendous potential and interest in the use of AeroMACS, and further drove collaboration among key industry players in the support of broadband technology as an industry standard.



Attendees were treated to a full two-day program, including speakers from WiMAX vendors; airlines; airport authorities; the various government representatives from the United States, Europe, and Asia; and other groups touching on a wide range of topics. The WiMAX Forum would like to extend a special thank you to our Host-Sponsor **EUROCONTROL**, our supporters—**FAA**, **SESAR**, **Japanese Civil Aviation Bureau (JCAB)**, and **CARATS**—and our generous sponsors, WiMAX Forum members **Hitachi** and **CelPlan Technologies**.

The WiMAX Forum would like to thank the following organizations for participating in WiMAX Aviation 2014 - Brussels:

<b>Aeroporto Milano Malpensa</b>	<b>Harris Corporation</b>
<b>Airbus</b>	<b>Hitachi</b>
<b>Aviation Data Communication Corporation (ADCC)</b>	<b>Honeywell</b>
<b>Boeing</b>	<b>International Air Transport Association (IATA)</b>
<b>Bureau Veritas ADT</b>	<b>NASA</b>

<b>CelPlan Technologies</b>	<b>Saab Sensis Corporation</b>
<b>ConvergEX technologies</b>	<b>Selex ES</b>
<b>Dassault</b>	<b>Senza Fili Consulting</b>
<b>Deutsche Flugsicherung GmbH (DFS)</b>	<b>Sequans</b>
<b>Direction des Services de la Navigation Aérienne (DSNA)</b>	<b>SESAR</b>
<b>Embry-Riddle Aeronautical University</b>	<b>Siemens</b>
<b>ENRI Japan</b>	<b>SITA</b>
<b>EUROCONTROL</b>	<b>Symantec Corporation</b>
<b>FAA</b>	<b>Thales Communications</b>
<b>Gemtek</b>	<b>UPS</b>

This event confirmed the WiMAX opportunity in the Aviation Industry, and the next WiMAX Aviation event has been scheduled. **Save the date: WiMAX Aviation 2014 – Sendai will be held on November 11 - 12, 2014 in Sendai, Japan.** The WiMAX Forum plans to have an AeroMACS field-trial tour to the ENRI lab in Sendai Airport in the afternoon on November 12. The meeting will also be collocated with ICAO WG-S Meeting on November 13-14. As details concerning this event are finalized, we will be certain to keep you informed.

Next month the Forum will continue to attend industry events, including our activities in supporting the **Vancouver Aviation Frequency Management** meeting and our participation at the **Internet of Things** conference.

In late 2013, the WiMAX Forum introduced WiMAX Advanced as an evolution to the WiMAX Standard. This program has proven to offer the right strategy and technical roadmap to our operator members, as they seek a smooth financial and technical path to TD-LTE. There are now WiMAX Advanced networks that are operational which have been instrumental in enabling operators to access a broader ecosystem of devices and radio access technologies. The Service Provider Working Group (SPWG) recently developed and published requirements for coexistence of WiMAX and other radio access technologies. A key activity to expand on this work and support this program has been to identify a few realistic scenarios for WiMAX and TD-LTE coexistence and/or transition. This program has been met with an excellent reception from our operator and telecom equipment manufacturing companies.

The Forum has also partnered with the **Global TD-LTE Initiative (GTI)** to jointly promote our common goal to build a robust and harmonized TDD ecosystem. We recently reached out to network operators and telecom equipment manufacturers to gather information on Common Use Scenarios for WiMAX Advanced. From this information, the Service Provider Working Group will develop specific common use cases and recommendations for Service Providers seeking to transition from WiMAX to WiMAX Advanced (by utilizing 3GPP technologies). Nima PourNejatian of **MobinNet** will be leading a task group in SPWG to focus on publishing this set of recommendations by early September. Work on WiMAX Advanced recommended service profiles is currently underway. To get involved in this development activity please contact: [spwg-chair@list.wimaxforum.org](mailto:spwg-chair@list.wimaxforum.org)

As a reminder the WiMAX Forum is currently winding down the bulk of its renewal season. Many of your organizations will have been contacted by our membership and finance teams by now. As always we stand ready to answer any questions that you have. If you have questions regarding your membership status, please send a message to [membership@wimaxforum.org](mailto:membership@wimaxforum.org), and we will respond as quickly as possible.

We at the WiMAX Forum wish you all a wonderful remainder of May, and a prosperous June.

Best Regards,

The WiMAX Forum

## EVENTS

In May, 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. Following is the summary of the upcoming events:



In its 9th year, the FTTH Conference & Expo is the biggest event for the FTTH industry in Asia and will be held from **June 3 to 5** in 2014 at the **Equatorial Hotel, Penang**. More than 600 attendees from the entire FTTH industry chain – including telecom equipment manufacturers, broadband service providers, technology companies, and any other industry stakeholder interested in the area of fibre access networks – will be attending.

Over a three-day conference, the FTTH Conference & Expo will feature FTTH presentations, streamed workshops, keynote insights, and industry-led panel discussions that will cover FTTH marketing, development, technologies, innovation, and market developments / trends of Fiber to the Home in Asia. For more information and registration, please visit: [FTTH Council Asia-Pacific Conference](#).



With over 1,000 attendees, **Carrier Wi-Fi World Summit** welcomes the entire Wi-Fi ecosystem. This is your chance to hear from CTOs and Senior Executives from the world's leading operators. For the first time ever, the event will also play host to the end users from transport, retail, enterprise, and stadia.

The event comes at an ideal time. With an increased focus on managing growth in broadband traffic and driving innovations to capitalize on revenue streams, Carrier Wi-Fi World Summit presents the latest case studies and technological developments.

**The WiMAX Forum is a proud supporting organization.**

For more information and registration, please visit: **Carrier Wi-Fi World Summit 2014.**



**Internet of Things World** on 17-18 June 2014 at Crowne Plaza Palo Alto, 4290 El Camino Real, Palo Alto, California 94306, USA, is the only independent business event dedicated to IoT anywhere in the world. The event is unique in a number of ways, including in its pure focus on IoT, its location here in the heart of Silicon Valley, the global nature of its participation, the breadth of ecosystem that it will bring together, the depth of quality conference agenda, the developer features including the IoT Hackathon, and the structured networking opportunities that it will provide.

The WiMAX Forum will be at Internet of Things World. Come and see the WiMAX Forum President and CEO **Declan Byrne** participation on June 18th at 2pm

Delegate passes start from \$995, and WiMAX Members can take advantage of an **exclusive 15% discount**, applicable at time of booking.

For more information and registration, please visit: **Internet of Things World 2014.**



The WiMAX Forum is delighted to announce the next WiMAX Forum Member Conference, which will take place on August 18-21, 2014 in beautiful San Francisco, USA. Working Group meetings will begin on Monday, August 18, and continue through Thursday, August 21, concluding with the Technical Plenary will take place on Thursday afternoon, August 21. The WiMAX Forum Board meetings will be held Wednesday, August 20 and Thursday, August 21, 2014. And on Tuesday, August 19, the WiMAX Forum will host a cocktail reception for networking purposes.

Please contact Sophia Chang, WiMAX Forum Program Coordinator, at [Sophia.Chang@WiMAXForum.org](mailto:Sophia.Chang@WiMAXForum.org) if you wish to attend this event or request a visa invitation letter.

We look forward to welcoming our members in San Francisco!



**WiMAX Africa 2014 will be pre-conference session to 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 Program Coordinator, at [Sophia.Chang@WiMAXForum.org](mailto:Sophia.Chang@WiMAXForum.org).

### **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*)
- 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](mailto: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**

There are currently 102 members of the WiMAX Forum in good standing. The WiMAX Forum would like to extend a special welcome to the new members from 2014:

- [Ecil Energia](#)
- [Exelis](#)
- [Green Packet Berhad](#)
- [Intellicom LLC](#)
- [Kyocera Communication Systems Co.](#)
- [Magnaquest Technologies Ltd](#)
- [Seowon Intech](#)

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.

If you have questions regarding your membership, please contact Raul Rigo at [Raul.Rigo@WiMAXForum.org](mailto:Raul.Rigo@WiMAXForum.org); +1-305-582-7590.

**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 Working Groups will meet face-to-face at the **WiMAX Forum Member Conference in San Francisco, USA**. The TWG, SPWG, AWG, and SEWG will collaborate on specifications and requirements to further develop the **WiMAX Advanced**, **Aviation**, and **WiGRID** and other Smart Energy Initiatives.

At the productive SEWG Working Group session at UTC Telecom 2014 in Phoenix, SEWG members discussed Spectrum: the background, alternatives, and solutions for WiGRID. They are drafting comments in response to the recent FCC NPRM related spectrum in the 3.5 GHz band. SEWG members also continued to develop drafts of requirements for WiGRID 2 to incorporate features developed in IEEE Std 802.16n and IEEE Std 802.16p, such as enhanced security and authentication as well as network reliability improvements.

The WiMAX Forum successfully published 8 revised specifications related to WiMAX Advanced Releases 2.1 and 2.2 to drive the **WiMAX Advanced** initiative. For the **Aviation** initiative, AWG has developed AeroMACS X.509 Certificates & Certificate Policy Use Cases, in an effort to continue moving forward with the plan to achieve AeroMACS Certification in 2014 to serve the Aviation Community.

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. Principal 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 & Aviation Initiative*
- **NWG** - Network Working Group - *Technical*
- **TWG** - Technical Working Group - *Technical*
- **CWG** - Certification Working 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](http://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](mailto:Rich.Hawkins@WiMAXForum.org)

## WiMAX FORUM NEWS

The WiMAX Forum has launched its weekly WiMAX Newsbrief. This weekly summary of news from around the WiMAX ecosystem is intended as a benefit to our members. 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 May:**

- [Carrier Wi-Fi World Summit Updates](#)
- [Internet of Things World 2014](#)
- [Freshtel expands WiMAX coverage](#)
- [California's energy innovations reach new highs](#)
- [Avanti Communications + Syntelix—Connectivity Considerations](#)
- [Enforta starts services for Gradis-Stroy company](#)
- [WiMAX Africa 2014](#)
- [Vishay Intertechnology to Exhibit Leading High-Frequency, Precision, and Wire-Bondable MLCCs, Resistors, and Inductors at IMS2014](#)
- [Nepal's mobile base continues to climb; 20.647m users by mid-March](#)
- [Feeder Operations in the Blink of an Eye](#)
- [Networking the sky with new aircraft communication technology](#)
- [Updated IoT World Program to Download](#)
- [4G Technologies Boot Camp - Online Edition](#)
- [ONGC's Innovative Implementation of WiMAX Based BWA System](#)
- [Power to the people](#)
- [Sudan Fixed Telecommunications: Low Penetration Rates Get a Boost from Broadband Internet and VoIP Services](#)
- [Bangladesh ends April with 37.17 mln internet subscribers](#)
- [Quarter Wave Stub Lightning Protectors cover 2.2-7.6 GHz range](#)
- [Compact Antenna Snares WiMAX/WLAN](#)
- [Korenix Industrial PoE Switch provides solutions with powerful functionalities](#)
- [Smart grid antenna OK'd for Worcester Airport Industrial Park](#)
- [WiMAX to boost staff with cash from Santander](#)
- [Internet of Things \(IoT\) and Wireless Networks: Technologies, Business Drivers, and Market Outlook](#)

- **WiMAX and WiFi to play key role in BSNL's 4G Rollout**
- **Free Webinar: How to Dimension user Traffic in 4G Networks**
- **FTTH Council Asia-Pacific Conference 2014**
- **Utility mergers, acquisitions focused on growth, return potential**
- **Carrier Wi-Fi World Summit 2014**
- **Telecom Operators Moving Forward with a Converged Ecosystem – Webinar Recording**
- **IGNIS Demo Concludes**
- **ONGC's innovative implementation of WiMAX based BWA system**
- **NT switches to 3G network**
- **4G Technologies Boot Camp - Online Edition**
- **Bangladesh reaches 36.86 mln internet subs in Q1**
- **FTTH Council Asia-Pacific Conference**
- **April 2014 WiMAX Forum Monthly Newsletter**



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