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INTRODUCTION

Dear WiMAX Community,

This September the **WiMAX Forum®** hosted its first WiGRID™ PlugFest! The event was held at the **Powertech Labs Inc.** facility in Vancouver, Canada; and included participation from **Airspan Networks, Cisco Systems, Electric Power Research Institute, GE Digital Energy, PureWave Networks** and **Rohde & Schwarz**.

The PlugFest illustrated the tremendous potential and interest in delivering broadband wireless services to the utility industry using WiMAX technology, and marked the WiMAX Forum's first phase of interoperability testing for WiGRID technology.

During the event each WiMAX equipment supplier conducted a series of stringent and extensive test procedures consisting of protocol conformance and interoperability testing. Participants tested the equipment in the 1.8 - 2.3 and 3.65 Gigahertz (GHz) frequency spectrums, which allowed vendors to conduct testing at higher layers demonstrating streaming applications.

The throughput scheme range was at 5, 7 and 10 Megahertz (MHZ). Overall the event was a great success, and the WiMAX Forum would like to extend its thanks again to the participating companies. More information on the WiGRID PlugFest can be found in the full release below on the newsletter under Session Highlights.

We would also like to remind you of next month's important events. The WiMAX Forum is co-locating its next Operator Summit, WiMAX Europe 2012, with our Member Conference in Sofia, Bulgaria. For more information on both events, please visit the following links:

- **WiMAX Forum Member Conference**
- **WiMAX Europe 2012**

We would also like to remind our membership that the WiMAX Forum is an Association Sponsor of this year's **4G World Conference & Expo** in Chicago, USA. WiMAX Forum President **Declan Byrne** will join the program to discuss **WiMAX for industrial applications**, and the Forum is offering a discount on registration for WiMAX Forum members! Please email **Alessandra.Rocha@WiMAXForum.org** for the discount code.

We at the WiMAX Forum wish you all a wonderful and prosperous month. We hope to see you at 4G World!

Best Regards,

The WiMAX Forum

EVENTS UPDATE

The WiMAX Forum is hosting and participating in a number of events in the next several months. Please find below the detailed description of all the upcoming WiMAX Forum events:

WiMAX Forum Member Conference in Sofia 2012

The **WiMAX Forum Member Conference** will take place on October 15-18, 2012 in beautiful Sofia, Bulgaria.

For the meeting venue, we have secured the luxurious 5 star **Sheraton Sofia Hotel Balkan**, ideally located right in the heart of the city, with easy access to main shopping areas, restaurants, and sightseeing. The oldest building in Sofia, dated 4th century – the Rotunda of St. George – is located right in the courtyard of the Sheraton hotel, and the hotel itself is recognized as one of the city's architectural landmarks.

Please register for the member conference and reserve your room as soon as possible!

Sofia Member Conference Website – please click here for details and registration.

Please contact Julia Rueb: Julia.Rueb@wimaxforum.org if you have any questions about the Sofia Member Conference.

WiMAX Europe 2012

The WiMAX Forum is also pleased to announce the next event in the WiMAX Forum 2012 Operator Summit Series: **WiMAX Europe 2012**, to be held at the **Sheraton Sofia Hotel Balkan**, on October 16th, 2012. This event will focus specifically on supporting the European operator community in managing profitable development and growth of their WiMAX networks.

Sofia is the capital and largest city in Bulgaria located at the foot of Mount Vitoshka. From Roman ruins and ancient churches, to small shops and charming cafes – Sofia has it all. It is known as “Europe's most compact and walkable capital city” and is home to many historic sites, including the Alexander Nevski Church, considered one of the finest cathedrals in Europe.

The WiMAX Forum will be hosting a cocktail reception for networking purposes on the evening of October 16th that will be open to attendees of both events.

WiMAX Europe 2012 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 profitable WiMAX network in Europe.

WiMAX Europe 2012 will be an interactive working event, and there will be **no registration fee**. Participation in this event is free and open to all participants of the WiMAX ecosystem, and **membership in the WiMAX Forum is not a requirement for to attend**.

To register for this event please visit: **WiMAX Europe 2012**

WiMAX Oil & Gas 2012

WiMAX Oil & Gas 2012 will be a pre-conference event at **OilComm 2012** on **Tuesday, November 6th**, at the Marriott Westchase 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.

Operators and vendors are all invited to this event to meet, network and discuss ideas to foster a prosperous environment and future of the WiMAX Oil & Gas ecosystem. The event will also highlight the opportunities, challenges and strategies involved in operating a profitable WiMAX Network. More information on the event, including registration page will be available soon.

WiMAX Oil & Gas 2012 will be an interactive working event. Participation in this event is free to attendees of the OilComm Full Conference Program. The event is open to all participants of the WiMAX ecosystem, and membership in the WiMAX Forum is not a requirement to attend.

To register for the **WiMAX Oil & Gas 2012** event please go to the link below, select Full Conference and on the Pre-Conference session mark your participation on the WiMAX for Oil & Gas Smart Field Networks: <https://www.eiseverywhere.com/ereg/index.php?eventid=39524&>

WiMAX Oil & Gas Event 2012 participants will receive a special **discount of 10%** on the registration. Please email Alessandra Rocha at Alessandra.Rocha@wimaxforum.org for the discount code.

For additional information about this event please visit: **WiMAX Oil & Gas 2012**.

WiMAX Africa 2012

WiMAX Africa 2012 will be collocated with Informa Telecom & Media's AfricaCom on **Tuesday, November 13th, 2012 at the Cape Town Convention Centre in Cape Town, South Africa**. Last year's WiMAX Africa event attracted 95 attendees including 23 representatives of 18 different WiMAX operators. This year's event will focus specifically on supporting the African operator community in developing and managing profitable growth of WiMAX network deployments.

WiMAX Africa 2012 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 profitable WiMAX network in Africa.

WiMAX Africa 2012 will be an interactive working event, and **there will be no registration fee**. Participation in this event is free and open to all participants of the WiMAX ecosystem, and **membership in the WiMAX Forum is not a requirement for to attend**.

To register for this event please visit: **WiMAX Africa 2012**

WiMAX Middle East 2012

WiMAX Middle East 2012 will be co-located with Informa Telecom & Media's Middle East Telco Com Summit on **Monday, December 3rd, 2012 at the JW Marriott Marquis Hotel, Dubai, United Arab Emirates**. This will be our first Middle East event, and will focus specifically on supporting the Middle Eastern operator community in developing and managing profitable growth of WiMAX network deployments.

WiMAX Middle East 2012 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 profitable WiMAX network in Middle East.

WiMAX Middle East 2012 will be an interactive working event, and **there will be no registration fee**. Participation in this event is free and open to all participants of the WiMAX ecosystem, and **membership in the WiMAX Forum is not a requirement for to attend**.

To register for this event please visit: [WiMAX Middle East 2012](#)

WiMAX Forum Upcoming Events 2012

- **4G World 2012 to be held on October 29 – November 1, 2012 in Chicago, IL.** For more information about the event please visit: [4G World 2012](#). WiMAX Forum members will receive a special discount of **\$100** on the registration. Please email Alessandra.Rocha@WiMAXForum.org for the discount code.
- **4G Latin America 2012 on November 14-15 in Bogota, Colombia.** For more information about the event please visit: www.4glatinamerica.com. WiMAX Forum members will receive a special discount of **\$200** on the registration. Please email Alessandra.Rocha@WiMAXForum.org for the discount code.

For more details about our events please visit: [WiMAX Forum Events](#).

If you have any questions regarding the events, please contact WiMAX Forum Event Manager Julia Rueb: Julia.Rueb@wimaxforum.org.

WiGRID™ PLUGFEST EVENT – SESSION HIGHLIGHTS

Global WiMAX Leaders Showcase Interoperable Products at Inaugural WiGRID™ PlugFest Event hosted by the WiMAX Forum®

Global WiMAX leaders convened this month for the first WiGRID™ PlugFest Event hosted by the **WiMAX Forum** in Vancouver, BC. The WiGRID PlugFest was held at the **Powertech Labs Inc.** facility and was scheduled to coincide with UTC Canada 2012 in order to bring a mix of global utility company experts and equipment vendors to engage in hands-on testing interoperability of equipment.

WiGRID is a new IEEE 802.16 system profile being developed by the WiMAX Forum against the requirements of the Utility companies. WiGRID contains important new features that optimize IEEE 802.16 standard's based WiMAX equipment for a range of Field Area Networking applications and use cases.

The WiGRID PlugFest Event illustrated the tremendous potential and highlighted the interest in delivering broadband wireless services to the utility industry using WiMAX technology.

This event marks the WiMAX Forum's first phase of interoperability testing for WiGRID technology and showcases the capabilities of WiMAX Field Area Networking and Smart Grid equipment.

Participating companies included: **Airspan Networks**, **Cisco Systems**, **Electric Power Research Institute**, **GE Digital Energy**, **PureWave Networks** and **Rohde & Schwarz**.

Each WiMAX equipment supplier conducted a series of stringent and extensive test procedures, consisting of protocol conformance and interoperability testing. Participants tested the equipment in the 1.8 - 2.3 and 3.65 Gigahertz (GHz) frequency spectrums, which allowed vendors to conduct testing at higher layers demonstrating streaming applications. The throughput scheme range was at 5, 7 and 10 Megahertz (MHZ).

"The WiGRID profile is important for the Utility industry as they build out robust, private and cyber-secure wireless Field Area Networks as part of their grid modernization programs", said Eric Stonestrom, CEO and President of **Airspan Networks**. "WiGRID represents a focused next step for the established 4G WiMAX standard and ecosystem, which is strongly placed to support ethernet friendly but highly secure wireless communications networks for the next 10 years. Cyber security is paramount for utility providers and this approach provides substantial advantage over alternative solutions like public cellular communications or spread spectrum narrowband connection based architectures".

Paul Senior, CTO of **Airspan Networks** and Vice Chair of the WiMAX Forum **Smart Grid Working Group** said, "It was a great event and we achieved important milestones. This first WiGRID IEEE 802.16 PlugFest established the baseline for interoperability and a foundation for certification. The new uplink centric feature set and end-to-end security over ethernet ensure there is real Utility industry support for the optimized WiGRID profile".

Marty Collins, Technical Marketing at **Cisco Connected Energy Networks Business Unit** said "Having access to the different vendors in the WiMAX Forum WiGRID PlugFest in a casual and relaxed environment allowed for true teamwork when working through issues to ensure interoperability. I want to thank the WiMAX Forum, PowerTech Labs and BC Hydro for organizing and hosting the event and the other vendors for the teamwork demonstrated this week."

"This PlugFest was a great success and it is a clear sign that the WiMAX standard can be tailored to meet the demanding security and performance requirements of Industrial customers as they seek to build out mission critical applications like those in Electric Utilities," said Tom Mueller, General Manager of Industrial Communications at **GE's** Digital Energy business.

"Powertech Labs was delighted to host the inaugural WiGRID PlugFest. Here at Powertech we believe that interoperability is the cornerstone of our efforts in advancing the grid and their efforts here coincided with our initiation of advanced technology demonstration projects in our new Smart Utility Lab," stated Raymond Lings, Managing Director at **Powertech Labs Inc.**

"Extensive interoperability between vendors and a vibrant ecosystem make WiMAX an ideal solution for private networks in general and for Smart Grid applications in particular. The WiGRID Plugfest successfully demonstrated both the robustness and the ease of use offered by the WiMAX standard and we are pleased to have taken part in it," said Ronen Vengosh, VP Marketing and Business Development at **PureWave Networks**. "PureWave congratulates the WiMAX Forum on a job well done and is looking forward to sending our rugged base stations to participate in future events of this type."

“Rohde and Schwarz understands there is a strong initiative in the utilities industry to take advantage of the smart grid technology and we want to help make this technology a success by providing turn key test solutions for this market. The WiGRID Plug Fest was a great event for us to learn where the utilities industry is headed and to show the type of 4G test solutions Rohde and Schwarz has to offer for these non traditional mobile devices,” stated Anthony Opferman, Business Development Manager, Wireless Communications at **Rohde & Schwarz**.

“The demonstrated interoperability between the WiMAX equipment vendors supported by the test and power system vendors made this WiGRID event a tremendous success. This first, and subsequent PlugFests will create a wireless ecosystem that can support SmartGrid applications,” stated Eugene Crozier, 1800 WG, UTC Canada and Chair of the WiMAX Forum’s **Smart Grid Working Group**.

The WiGRID PlugFest Event was specifically designed to provide an opportunity for WiMAX equipment manufacturers serving the utility space to test the interoperability of their products against use case scenarios specifically drafted by the Utility Industry. It allowed multiple WiMAX equipment suppliers to conduct an extensive series of interoperability tests in multiple frequency bands, allowing vendors to conduct testing at higher layers demonstrating interoperability across a number of different applications and showcase their capabilities to the Utility Ecosystem.

The WiMAX Forum’s mission is to facilitate the adoption of WiMAX technology across the world and ensure that industry products are interoperable. The WiMAX Forum continues to make significant progress in delivering products that help network operators build out WiMAX networks. The WiGRID PlugFest signals the endorsement of manufacturers to make cost-effective, standardized and interoperable WiMAX equipment in support of Utilities.

For more information on WiMAX technology please contact Mike Wolleben at **Mike.Wolleben@wimaxforum.org**. You may reach Mike by phone at +1 (512) 470-9045.

MEMBERSHIP SERVICES UPDATE

There are currently 148 members of the WiMAX Forum in good standing.

The WiMAX Forum would like to extend a special welcome to the newest member: **Azqtel Limited**

One new member has applied for membership in September: **Unique Atlantic ICT Solutions**

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 WiMAX Forum can better serve its membership. If you have questions regarding your membership, please contact Mike Wolleben **mike.wolleben@wimaxforum.org** - 512-470-9045.

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 GROUP UPDATE

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.

The WiMAX Forum organizes its technical activities through a number of Working Groups coordinated by a Technical Steering Committee. The WiMAX Forum Working Groups include:

- **SPWG** - Service Provider Working Group
- **SGWG** - Smart Grid Working Group
- **AWG** - Aviation Working Group
- **NWG** - Network Working Group
- **TWG** - Technical Working Group
- **CWG** - Certification Working Group
- **GRWG** - Global Roaming Working Group
- **RWG** - Regulatory Working Group

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.

Working Group Meetings are held in-person ("face-to-face") or by teleconference. Dates and venues shall be determined taking into account Working Group needs and requests. To encourage cross Working Group discussions in support of the overall program goals, the WiMAX Forum co-locates the face-to-face meetings of multiple Working Groups at our Member Conferences.

The WiMAX Forum is seeking leadership for the Aviation and Network Working Groups. If you or your company is interested in nominating someone for a working group leadership role, please contact Rich Hawkins at Rich.Hawkins@WiMAXForum.org

Your participation is important to the WiMAX community!

WiMAX FORUM NEWS

WiMAX Forum, in partnership with Multiview, 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 of the month of September:

- [Overview Of WiMAX In Pakistan](#)
- [WiMAX Forum invites you to WiMAX Europe 2012](#)
- [Major Latin America operator expands GSM and WiMAX services with Hughes Satellite Network Technology](#)

- TTK to expand network in Kostroma, Russia
- Olo mobile Internet service goes live in Peru
- WiMAX-linked cameras set for Philippines Metro
- Enforta expands network in Yekaterinburg, Russia
- Boeing to expand in-flight Wi-Fi, media streaming
- Quickline to extend WiMAX network to Kent, UK
- NASA's Glenn Research Center partners with FAA to demonstrate wireless high data rate networking on airport surface
- LAN Airlines to fly with the Thales wireless streaming media solution
- Freshtel expands network in Dnipropetrovsk, Ukraine
- Mobile Citizen offers Clearwire's WiMAX service to nonprofits nationwide
- WiMAX Europe 2012
- 4G World 2012
- WiMAX Oil & Gas 2012
- WiMAX Africa 2012
- WiMAX Middle East 2012
- HTC J smartphone launched in Taiwan
- PoE is a powerful tool for industrial applications
- FCC to move on sharing scheme that could free up 100 MHz of wireless spectrum
- Freshtel expands WiMAX network in Donetsk, Ukraine
- Clearwire CFO: WiMAX network to generate more revenue than expected
- Guyana government in partnership to fast-track learning in math, chemistry
- Enforta connects ATMs of VTB24 bank to network
- Brazil's ISP teams up with Proxim
- Alvarion installs wireless network in Cleburne, Texas
- WiMAX Forum president describes road map wherein WiMAX, LTE are complementary
- WiMAX Forum to hold WiGRID PlugFest Event
- Questions over WiMAX Advanced will soon be operator dilemma
- HTC's waterproof, WiMAX-capable J handset now available in Hong Kong and Taiwan
- Sorry, Apple: Samsung is winning the 4G war
- Safaricom, Vodafone excite app developers with competition
- Telkom uncapped ADSL vs. Neotel uncapped WiMAX
- Wireless — the future of vehicle detection
- A record number of ICT ministers attend CANTO 2012
- Talk of the day — US top source of inbound investment
- UQ launches M2M partner program
- Siemens Smart Grids: We will elevate smart grids to a new level
- Wateen concludes nationwide sales competition
- Arterra Mobility announces launch of national 4G service on the Sentinel platform
- WiMAX Forum to hold WiGRID PlugFest Event
- WiMAX Forum invites you to WiMAX Africa 2012

- **South Africa's Neotel offers uncapped WiMAX to consumers**
- **Washington County commissioners, Smart Networks sign pact for Internet expansion**
- **Upper Silesia project gets EU grant for WiMAXnetwork**
- **Cloud-based, 3-D medical imaging comes to Japan**
- **Globe Telecom logs double-digit growth**
- **Brickcom cameras compatible with Immervision lenses**