



**PALLASIUM's NEW TECHNOLOGY OVERCOMES CHALLENGES OF WiMAX
DEPLOYMENT IN 700MHz BAND**
Innovative Solution Has Special Relevance to U.S. Market

Chicago, Illinois, September 26, 2007 –Pallasium, a pioneer in the development of software-based capacity enhancement solutions, created its innovative new Cross Sector Interference Cancellation (**XSIC**) software for enhancing capacity and quality of service in WiMAX networks. This solution will help U.S. service providers to overcome some of the major challenges involved with the deployment and expansion of WiMAX networks operating at 700 MHz band.

The design and deployment of WiMAX networks at the 700MHz band present several unique challenges. Due to the propagation characteristics of signals in 700MHz, a given area can be covered with large cells, resulting in potentially fewer base stations. However, since each cell serves a large number of subscribers, capacity soon becomes the limiting factor. In many 700MHz systems where relatively small slices of spectrum are assigned to operators, capacity becomes a bottleneck even sooner. In order to exploit the long range propagation of the 700MHz signal and enable large size cells, incorporating spectral efficiency enhancers becomes crucial. Unfortunately, the MIMO - WiMAX leading spectral efficiency enhancer, exhibits poor performance in 700MHz WiMAX due to the high number of LOS (Line of Sight) or NLOS (Near Line of Sight) links, typical to such deployments. Another obstacle is that the antenna arrays required for MIMO (Multiple Input Multiple Output) and AAS

(Adaptive Antenna Systems) in the 700MHz band are, in many situations, too large to be a realistic option.

Talking about network deployment, experienced wireless operators are concerned about whether aggressive reuse schemes that have been proposed will prove themselves in “real world” deployment. Additional concern is what impact co-channel-interference will practically have on the overall system capacity and quality of service (QoS).

Pallasium's Innovative Solution

To overcome these concerns and help operators increase capacity, maintain quality of service and achieve profitability, Pallasium developed ***XSIC*** solution to boost the overall capacity of WiMAX networks by up to three times, using no additional antennas or radios. ***XSIC*** technology makes use of the base station's existing sector antennas to perform large scale interference cancellation, thus enabling to exploit aggressive reuse schemes for boosting overall system capacity, reduce outage areas and improve the overall level of quality of service (QoS).

About Pallasium

Pallasium was formed in December, 2005 by an executive team with over 60 years of aggregated experience in the mobile industry. The founders have held senior positions in mobile network operation companies, infrastructure vendors and a number of venture-capital-backed wireless technology companies. Pallasium's founders also have extensive track records in the development and deployment of new products as well as detailed knowledge of wireless infrastructure systems and the maximization of radio capacity systems.

Pallasium is a pioneer in the development of algorithms and software-based solutions enabling WiMAX and other OFDMA networks increase their capacity considerably beyond their original capability.

For more information, go to www.pallasium.com.

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