

Quintel's Innovative Antenna Technology Eases Cellular Networks Smartphone Congestion

Thinking in a New Dimension - Adding Vertical Sectors and Capacity in the Cellular Mobile Network white paper on cost-effective approach to solve capacity problems now available on company website

MOUNTAIN VIEW, Calif. and BICESTER, UK – September 15, 2009 – [Quintel](#)[®], a leader in the design, development and delivery of network-efficient antennas for wireless operators, is offering a white paper on Quintel's sectorization in the vertical plane (SVP) application and solution to overcome capacity challenges operators encounter when implementing wireless network plans. The white paper, *Thinking in a New Dimension - Adding Vertical Sectors and Capacity in the UMTS Network*, is available on the company's website at www.quintelsolutions.com/svp.

"Network operators are hitting limits in their ability to accommodate increased traffic from explosive subscriber growth and enhanced data services within a finite spectral bandwidth," said Keith Radousky, co-author and Quintel's CTO, Americas. "As a result, operators often have to resort to providing capacity through cell splitting by adding further cell sites, and more sectors at existing cell sites in an area of congestion. As operators roll out and now densify their networks to provide faster speeds, more services, and a higher level of quality, they are confronted with bandwidth availability, spectrum re-farming headaches (or even no option to re-farm), zoning delays, deployment delays, and the total costs of adding new antenna positions including rentals and steel work.

"In some densely populated areas, adding more antennas is simply not an option. Quintel's [technology](#) facilitates quick and seamless deployments, and adds vertical sectors using existing antenna real estate. The need for additional antenna positions, loading and visual impact is therefore greatly mitigated."

Quintel's SVP implementation requires no additional spectrum, no horizontal antenna sector positions, and no additional tower sites in order to add capacity in the cellular networks. With Quintel's SVP, network operators get more out of existing spectrum and leverage more out of existing sites. Quintel's SVP application can also improve coverage into tall buildings while minimizing interference.

Quintel's vertical sectorization application of their technology yields significant benefits that include:

- Increased capacity up to 40%
- Significantly decreased/eliminated call blocking
- No additional antennas required
- No additional spectrum required
- Lower capital and operating costs
- Greater spectrum efficiency
- Faster and more reliable deployments

“In addition to Quintel’s existing operator sharing antenna application and access-technology service sharing antenna application, Quintel’s vertical sectorization application is a no-risk, high-reward undertaking that enables operators to lower cost, increase revenue, and improve network quality,” added David Barker, co-author and Quintel’s global CTO. “It’s a win-win solution: customers get faster and better service, and operators get faster and more reliable deployments with increased capacity.”

About Quintel

Quintel is an innovative leader in wireless network antenna technology development and manufacturing solutions. The company’s products enable global wireless operators to independently deploy and optimize multiple air interfaces or services on a single standard antenna platform. Quintel is the only antenna that increases a wireless network’s capacity, and the number of services, without increasing the number of antennas. Their core technologies originated in research performed on behalf of the United Kingdom’s Ministry of Defense, and are now deployed throughout the world. Quintel is headquartered in Bicester, UK, and Mountain View, California, with additional offices throughout North America, Europe and Asia. More information about Quintel is available at www.quintelsolutions.com.

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