SPECTRUM CONDITIONING IMPROVES RELIABILITY FOR MOBILE CELL SITES USED IN EMERGENCY SITUATIONS AND FOR SPECIAL EVENTS

New White Paper Issued for "Cell on Wheels" (CoW) and "Cell on Light Truck" (COLT) Deployments

ELK GROVE VILLAGE, IL – May 3, 2011 – ISCO International today released a new white paper, "DSP-Based Spectrum Conditioning for CoW and CoLT Deployments," that describes how the use of spectrum conditioning is just as important in temporary cell sites as it is in traditional wireless networks.

Access to mobile networks in virtually every scenario is an initiative that mobile operators have spent billions of dollars to provide. This is very important to ensure the customer experience and becomes even more important in the case of special events, disaster recovery, when additional capacity is required for a temporary period and when portable cell sites known as CoW's and CoLT's are deployed. These units are typically deployed in unpredictable and basically unknown environments. Factors such as high-power adjacent RF energy, co-channel interference from unknown sources and other carriers operating with reduced guard bands all limit the performance of these temporary cell sites.

Uplink interference is a real problem which can severely impact the performance of the network and the reality about many of these event, disaster, and capacity activities is that there is simply not enough time to engage in the traditional Uplink RF Interference hunting activity to determine where the interference is coming from and any associated action to stop the activity.

Network operators can include spectrum conditioning with RF digital signal processing to ensure optimal performance. This new white paper gives examples of how interference affects spectrum utilization, capacity, and performance in ad hoc situations and, more importantly, it provides data on actual improvements in various scenarios after implementing spectrum conditioning.

"We were called upon recently to provide spectrum conditioning at a major sports event to help the operator maximize its network capacity and quality of service," said Tim Hall, VP of North American Sales for ISCO International. "As in similar situations, our customer knew that unpredictable usage patterns, RF environment, and multiple service providers competing for spectrum could negatively impact their subscribers' experience. By counting on ISCO to mitigate the effects of interference and adjacent RF energy, they eliminated a significant worry."

As with the ISO 7-layer model where there are specific dependencies on each layer to work properly, the same applies to the RF network. Spectrum conditioning assures a solid RF physical layer so that upper layers of the call process including the application layer can work as designed.

Click here to download the paper “DSP-Based Spectrum Conditioning for CoW and CoLT Deployments”.

About ISCO International

ISCO International operates on the “front lines” of 3G – and soon – 4G communications by enhancing the integrity of a mobile operator’s “physical layer” assets – the cell site and acquired spectrum. ISCO understands that wireless communications depend heavily on the user’s RF connection to the base station and the company’s “spectrum conditioning” product line ensures that this connection performs as expected even in the most hostile and unpredictable environments. ISCO’s new Proteus® product, based on the latest PurePass™ digital signal processing technology, adaptively identifies and corrects the physical layer impairments (PLI) that decrease a cell site's coverage, capacity, data throughput and KPI performance. In sum, ISCO allows wireless carriers to get the most out of their existing base stations and spectrum (possibly eliminating the need to build additional ones in certain situations), reduce operating expense and deliver a consistently high quality of service. Please visit www.iscointl.com for more information.

Contact (for ISCO International):

Mike Newsom
LouVan Communications
mike@louvanpr.com
Mobile: +1 617 803 5385
Twitter: @louvanpr