



ISCO INTL DESCRIBES POSITIVE IMPACT OF SPECTRUM CONDITIONING ON MOBILE DATA TRAFFIC RATES IN NEW WHITE PAPER

Critical Improvements in Signal-to-Noise Ratio (SNR) Allow Carriers to Achieve the Higher Order Modulations Associated with LTE, HSPA, UMTS and EV-DO

ELK GROVE VILLAGE, IL – August 1, 2011 – ISCO International, the leader in flexible spectrum conditioning solutions for 3G and soon 4G network operators, has issued a new white paper, “It’s All About SPEED – Data Performance and Spectrum Conditioning,” that describes how mobile data traffic rates can improve dramatically by using spectrum conditioning to improve SNR.

The paper, now available on the ISCO website at www.iscointl.com, examines the expected exabyte level growth in mobile data traffic over the next few years in the context of conditioned and unconditioned spectrum environments.

“The fact is, unconditioned spectrum means underutilized spectrum, or said another way, valuable capacity is lost or unused,” said Gordon Reichard, CEO of ISCO Intl. “With debate raging about how to procure more spectrum, it is often overlooked that we as an industry should make better use of what we have now. Dramatic improvements over the current situation are possible with a relatively simple solution, based on specific applications of digital signal processing.”

Spectrum conditioning delivered by ISCO’s PurePass™ digital signal processing to condition the reverse RF link, the link from the subscriber’s device to the base station, removes the negative effects of co-channel interference power and adjacent channel leakage. The PurePass digital signal processing algorithms identify the invalid parts of the broadband signal and remove them. Doing this reduces the C/I ratio and overall channel power, resulting in an improved SNR.

Conditioning the subscriber’s link to the base station will have an important role to play in LTE services. In order to achieve the peak speeds exceeding 1 Gb/s for 4G, the reverse RF link must be sound or the maximum forward link rates cannot be achieved regardless of Multiple Input Multiple Output (MIMO) antenna configurations or bonding multiple channels together. This has already been proven true for 3G CDMA EVDO and UMTS modulation and coding schemes.

About ISCO International

ISCO International has become the leader in spectrum conditioning by proving that it improves the subscriber experience and by demonstrating the financial value that can be realized for 3G and soon 4G wireless operators. Spectrum conditioning enables service providers to squeeze all available capacity from their network assets by maximizing spectrum utilization. ISCO’s PurePass™ digital signal processing technology continuously identifies and counteracts the many types of co-channel and adjacent interference that cause “physical layer impairments”. With PurePass, wireless operators protect themselves from a significant degradation of uplink performance, which would negatively impact the entire wireless experience. Please visit www.iscointl.com to learn more.

Contact (for ISCO International):

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