

VTT and acticom are joining forces for advanced WiMAX

VTT Technical Research Centre of Finland and the German company acticom are joining forces to integrate Robust Header Compression (RoHC) defined by RFC3095 into fixed and mobile WiMAX (World Wide Interoperability for Microwave Access) systems.

The WiMAX system provides wireless access in metropolitan areas over long distances at high data rate. The RoHC technology enables compression of IP/UDP/RTP protocol header information down to a minimum while being robust against errors.

The scope of this collaboration is to enhance capacity and service quality in WiMAX multimedia networks. By minimizing the IP overhead, RoHC will boost the number of users in a WiMAX cell. Besides the network operator benefits, the RoHC optimized WiMAX system will provide shorter delay behavior and less error prone communication, essential characteristics for VoIP telephone, video, and media rich applications.

“3GPP Rel.6 already defines RoHC as a mandatory header compression scheme. WiMAX is already prepared to use RoHC for header compression. This collaboration will enable us to demonstrate the benefits for using RoHC in WiMAX already today.” says Gerrit Schulte, Managing Director at acticom.

“Our WiMAX environment will be enhanced by the acticom RoHC protocol stack, resulting in a richer as well as more realistic and natural multimedia experience for the user. We will be able to develop, test and validate this technology in our advanced WiMAX test-beds.” says Dr. Marcos Katz, Chief Research Scientist at VTT.

About VTT Technical Research Centre of Finland

VTT is known for its long research and development work in wireless technologies. Especially the WiMAX system has been one of its focus research areas for several years in in-house, European and joint industrial projects.

About acticom

acticom is known as a leading provider for Robust Header Compression protocol stacks. The acticom RoHC solution has already been integrated into 3GPP cellular systems, such as mobile handsets or infrastructure systems. In this joint initiative RoHC will be combined with WiMAX technology, opening up new opportunities for enhancing network and link performance.

Further information:

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