

For Immediate Release

Provigent's New ProviBand Technology Increases Backhaul Links Capacity 10X

Multiple Classes of Availability Allow Cellular Operators to Prioritize and Optimize Backhaul Links for Mixed Voice, Data and Video Traffic

LOS ALTOS, Calif., January 17, 2006 – Provigent, Inc., a leading provider of system-on-a-chip (SoC) solutions for broadband wireless transmission, today introduced ProviBand, a new technology that enables point-to-point systems based on Provigent's PVG310 single-chip modem to support differential services over wireless backhaul infrastructure, thus efficiently provisioning the available bandwidth and benefiting from the relaxed requirements of Internet Protocol (IP) traffic. As a result, the PVG310 with ProviBand technology will significantly reduce deployment and operation expenses of next-generation cellular wireless backhaul links (also known as cellular access network).

The implementation of differential services is enabled by the PVG310's on-the-fly adaptive code and modulation (ACM) mechanism – unique in wireless backhaul applications – which allows a dynamic link capacity as modulation and coding change on a frame-by-frame basis according to the link conditions, thus allowing more efficient use of the spectrum.

With the proliferation of 2.5G and 3G networks, cellular operators are migrating from traditional exclusive voice services to a rich mix of time division multiplexing (TDM) and IP traffic for voice, data and video services.

“We're seeing a steadily growing demand for differential services over cellular backhaul links, as new services are added,” said Ran Soffer, Provigent's vice president of marketing. “Using our PVG310 with ProviBand, vendors can design adaptive rate systems that meet the requirements of mixed (TDM and IP) high-capacity traffic in next-generation cellular backhaul networks.” Provigent's ProviBand technology enables cellular operators to support transmission of differential services over multiple classes of availability (CoA); each CoA defines the priority level and capacity per service.

Traditional voice-centric cellular backhaul links operate in a single CoA of “five nines” (99.999%) for all its services, resulting in an expensive fixed-capacity system design for worst-case link conditions, whereas multiple CoA increase the available capacity to ten times that of standard links. During clear link conditions, the point-to-point link operates at maximum capacity and provides the full rate per service. During poor link conditions (such as harsh rain), the operation of predefined, high-availability services (e.g., voice) is not affected, while the capacity of lower-priority services dynamically adapts to the changing link conditions.



About Provigent

Provigent, a fabless semiconductor company, is the leading supplier of SoC solutions for the broadband wireless transmission industry. The company is financed by leading venture capital companies and private individuals such as Andrew Viterbi, co-founder of QUALCOMM (NASDAQ:QCOM). More information is available on the Web at www.provigent.com or via e-mail at info@provigent.com.

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