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HDR LOS Waveform Toolkit Developed by Nova Engineering

Cincinnati, OH, June 15, 1999 – Nova Engineering, Inc. has successfully demonstrated the world's first software development platform executing the Orthogonal Frequency Division Multiplexing (OFDM) waveform used in the Navy's HDR LOS (High Data Rate, Line of Sight) communication systems. OFDM has emerged in recent months as the leading contender among spectrally efficient waveforms for wireless mobile communication products.

"For a company designing a wireless mobile communications system, this toolkit allows them to get a tremendous jump on product development," says Terry Hill, President of Nova Engineering. "This is the equivalent of starting a marathon on the twentieth mile."

This OFDM waveform has been developed to maximize data throughput with limited bandwidth even in the presence of highly dynamic multipath conditions that are typically experienced on a mobile communications channel. Traditional waveforms labor to mathematically track the channel dynamics— and therefore fail in a mobile environment.



Nova's OFDM waveform, co-developed with the Navy (SPAWAR) under the HDR BAA, overcomes these problems by simply decimating out the channel artifacts. The packet switched physical layer structure guarantees efficient use of the RF channel through multi-user reuse. Historical challenges associated with packet acquisition have been solved with a novel processing algorithm that is resistant to multipath and operates at SNRs below 0 dB.

The OFDM waveform has been proven on Nova's Centauri Software Reconfigurable Modem Development Platform. Nova's OFDM waveform is poised for adoption by DoD as a mandated waveform for Year 2000 tactical radios.

Nova Engineering's HDR LOS Waveform Toolkit is scheduled for release in July, 1999. The product includes a waveform definition, simulation model, and source code.

Nova Engineering is a 100% employee owned wireless and digital communication products and services company. In ten years of operation Nova Engineering, Inc. has successfully designed and implemented a variety of leading edge projects in both the government and commercial sectors.

For further information about Nova Engineering, Inc. call 800-341-NOVA or email info@nova-eng.com.

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