BridgeWave Breaks “Same Vendor” Hold on Backhaul Networks with Navigator Antenna Interfaces for Faster, Easier, Economical Upgrades

*Network operators can replace legacy microwave radios with BridgeWave’s revolutionary Navigator licensed microwave system without the high cost of replacing antennas*

SAN DIEGO (PRWEB) November 28, 2018 -- BridgeWave Communications, a market leader in 5G-ready wireless backhaul systems, today announced that fielded radios using the standard REMEC Broadband Wireless Networks (RBWN) microwave antenna interface, as well as third party antenna interfaces, can be easily and inexpensively upgraded to Navigator, BridgeWave’s newest and revolutionary microwave radio system. Navigator supports the RBWN standard antenna interface, the same interface used in more than one million fielded radios manufactured by RBWN, the leading OEM supplier to backhaul solutions providers throughout the world. In addition to supporting the RBWN interface, Navigator features an adaptable antenna interface enabling field upgrade of legacy systems that use non-REMEC antenna interfaces. Operators are no longer tied to the same vendors for field upgrade of their microwave radios, and can move quickly to deploy Navigator, the highest capacity all-outdoor microwave radio on the market offering features never-before-seen in licensed microwave.

Historically, because of the widespread global deployment of microwave radios with the RBWN interface, antenna manufacturers coupled their antennas with the RBWN interface to simplify installation. Today, that same interface gives network operators the option to upgrade legacy backhaul radios, or adapt easily non-RBWN antenna interfaces, to BridgeWave’s newest Navigator microwave radio system. By eliminating the need to replace antennas, an operator's capital costs, deployment costs, and time-to-market are slashed.

“Reducing the costs to upgrade backhaul networks is an important goal as we design new wireless solutions,” said Hesham El-Adly, product marketing manager, REMEC Broadband Wireless Networks, BridgeWave Communications, and SAGE Satcom. “That’s why we think beyond radio performance to incorporate features like the RBWN antenna interface, and to create an adaptable antenna interface for third party antennas, to make installation easier and give operators a cost-savings edge when upgrading their legacy backhaul networks.”

The Navigator Edge for Network Operators

In addition to its antenna interfaces that simplify backhaul network upgrades, Navigator, which is built on our proprietary, custom ASICs, offers features and capabilities beyond what was thought possible in licensed microwave. These unique features include:

- the ability to combine dual subcarriers in each transceiver to transport up to 2.75Gbps in the single transceiver radio and 5.5Gbps in the dual transceiver radio;
- modulations up to 4096QAM with ultra-wide channel bandwidths up to 112MHz (ETSI) and 160MHz (ANSI) to maximize capacity and range;
- customer-replaceable diplexers to minimize product lead times and inventory stocking costs;
- a dual 10Gbe interface that enables a simple, single fiber run to the radio;
- valuable software features like ACM and QoS integrated into Navigator without the need and associated costs of additional software licenses;
- simplified licensing of optional features, enabled with single software keys.

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Navigator is available in single and dual transceiver models, Navigator ST and Navigator DT, respectively. Operators can order either model in “base” configurations without diplexers installed, or fully configured. With Navigator systems, operators now have unprecedented flexibility to support multiple network configurations and applications, optimize networks for highest capacity and range, upgrade legacy networks, and accelerate time-to-market.

BridgeWave systems provide a fast, easy, and inexpensive way to extend backhaul networks without the cost, time, and complexity of new or leased fiber. In addition to Navigator, BridgeWave offers a broad range of 80GHz systems including the Flex4G-10000, delivering up to 9.7Gbps full-duplex capacity; the Flex4G-LITE, delivering up to 3Gbps full duplex capacity; and the entry-level Flex4G-1000, delivering up to 1Gbps full duplex capacity.

About BridgeWave Communications
BridgeWave Communications provides high-capacity microwave and millimeter wave backhaul and wireless connectivity solutions to operators, carriers, service providers, governments, and private enterprises. With over 40,000 systems deployed in more than 60 countries, the company’s innovative solutions have been entrusted by customers to enable highly reliable and secure, high-capacity, gigabit connectivity while reducing operating costs relative to fiber. Founded in 1999, BridgeWave is headquartered in San Diego, California, and is now a part of REMEC Broadband Wireless Networks LLC, which has designed, manufactured, and shipped over one million radios to customers worldwide. For more information about BridgeWave, visit https://bridgewave.com/.
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