

Hawaiki Achieves Record-breaking Performance on 15,000 km of Uncompensated Subsea Cable with Infinera ICE6

San Jose, California and Auckland, New Zealand – March 15, 2023 – Infinera (NASDAQ: INFN) and Hawaiki Submarine Cable LP, a subsidiary of BW Digital, announced today the successful completion of a record-breaking trial on Hawaiki Cable. Leveraging Infinera’s ICE6 800G coherent optical solution, the trial achieved real-time subsea spectral efficiency of more than 4.5 bits per second per hertz (b/s/Hz) on an uncompensated cable spanning 15,000 km and connecting Australia and the United States.

This trial demonstrates the value of Infinera’s ICE6 solution in enabling subsea operators like Hawaiki to better serve their customers by increasing the capacity per fiber while simultaneously reducing the cost per bit and power per bit of delivering high-speed services. Conducted with Infinera’s GX Series Compact Modular Platform, featuring the ICE6 optical engine, the trial underscored the value of its unique features, including ultra-high baud rates, long-codeword probabilistic constellation shaping (LC-PCS), second-generation Nyquist subcarriers, and SD-FEC gain sharing.

Hawaiki also tested the integration of Infinera’s suite of software automation tools, including Intelligent Power Management (IPM) and Instant Bandwidth 2.0, which enable important capabilities such as smart cable automation, embedded spectrum sharing, and rapid service activation.

“As a carrier and vendor-neutral operator, we are consistently looking for the best technology to upgrade our network. This trial leveraging Infinera’s latest coherent optical solution proved that the Hawaiki cable system has been optimally designed and is capable of achieving record-breaking performance to deliver more capacity and open spectrum sharing capabilities, essential to meet our customers’ needs,” said Anaël Greiveldinger, Hawaiki’s Director of Engineering.

“Extending the capital life of important subsea assets for our customers remains a key goal of Infinera,” said Nick Walden, Senior Vice President, Worldwide Sales, Infinera. “We are excited about the results of this trial proving how ICE6 can significantly increase the number of services that can be delivered over long submarine infrastructure.”

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About Hawaiki Submarine Cable LP

Hawaiki Submarine Cable LP, headquartered in Auckland - New Zealand, is a subsidiary of BW Digital. It owns and operates the 15,000km Hawaiki Submarine Cable network, connecting Australia, New Zealand, American Samoa, Hawaii and the US west coast since 2018. For more information, please visit www.bw-digital.com or connect with Hawaiki on [LinkedIn](#).

About Infinera

Infinera is a global supplier of innovative [open optical networking](#) solutions and advanced optical semiconductors that enable carriers, cloud operators, governments, and enterprises to scale network bandwidth, accelerate service innovation, and automate network operations. Infinera solutions deliver industry-leading economics and performance in long-haul, submarine, data center interconnect, and metro transport applications. To learn more about Infinera, visit www.infinera.com, follow us on [Twitter](#) and [LinkedIn](#), and [subscribe for updates](#).

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