Hewlett Packard Enterprise

Solution: HPE OEM

Industry: Information technology / cybersecurity

Country: Canada

HPE and TAURIA partner to deliver enterprise-scale quantum-safe security solutions

"Most organizations do not realize they face an immediate threat, not a future one. When quantum computers can break current encryption in seconds, every piece of encrypted data captured today becomes vulnerable. Adversaries do not need quantum computers now. They simply need to store the encrypted data until quantum capabilities catch up."

– **Professor Jesse Van Griensven**, CEO, TAURIA

TAURIA

Founded in 2019 at the University of Waterloo, TAURIA develops post-quantum cryptography (PQC) solutions that protect organizations against quantum computing threats. Professor Jesse Van Griensven and his research team transformed advanced quantum security algorithms into enterprise-ready solutions. The company's evolution from a university research initiative to an enterprise security provider demonstrates both the urgency of quantum protection and TAURIA's success in delivering practical quantum-safe implementations.

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Objectives

- Develop quantum-resistant encryption solutions that protect both current and future data transmissions
- Implement PQC technology without compromising business performance requirements
- Scale quantum-safe security across diverse enterprise environments and industries

Requirements

- Secure manufacturing process for sensitive quantum-resistant components
- Enterprise platforms capable of handling quantum-resistant encryption without performance loss
- Global reach for worldwide implementation and support

Solution

- HPE ProLiant DL360 Gen11 Servers

Additional resources

- Solution overview

AURIA

Outcomes

- Financial systems processing over 10 million daily transactions while maintaining sub-millisecond performance
- Healthcare records secured for more than 75 years without compromising access speed
- Defense communications protected with 100-year rated encryption processing over 100,000 daily communications without detection

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